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DEPARTMENT OF DEFENSE
IN-HOUSE RDT&E ACTIVITIES



30 October 1973

Management Analysis Report . . .

Department of the Army

Department of the Navy

Department of the Air Force

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DEPARTMENT OF DEFENSE IN-HOUSE RDT&E ACTIVITIES

Harold F. Davidson

30 October 1973

Office of the Chief of Research and Development
Department of the Army
Washington, D.C. 20310



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FOREWORD

This report was prepared by the Department of the Army at the request of the Director of Defense Research and Engineering. The Departments of the Army, the Navy and the Air Force provided comprehensive data on the finances, manpower and facilities of their organizations that perform research, development, test, and evaluation (RDT&E). In addition, they briefly described each activity's mission, current important programs, functions, and equipment capabilities. The statistical data relate to the past and current fiscal years, i.e. 1973 and 1974.

Each in-house RDT&E activity of the Department of Defense is described on one page in this compilation. The data for FY 1973 are summarized in tables preceding the main text.

This edition is the eighth of a series that started in 1966. All information was submitted on key-punched cards, and the report's preparation was thus entirely automated--with some manual correction of typographical errors, fiscal and manpower data, and clarification of obscure abbreviations and contractions.

All current DoD RDT&E activities are listed in the Contents alphabetically within each Department. Some new organizational names appear in this issue and others have been changed or deleted since last year; for this information, see Appendix 1.

Appendix 11 contains the definitions given in DoD Instruction 7700.9¹ and employed as the basis for these data. Appendix 111 lists selected standard abbreviations and acronyms.

In a continuing effort to improve the usability of this report, a Tables page has been added this year as has a Table of Service Research and Development Laboratory Organizational Relationships. A chart showing the Laboratory Command Chain for each service is also new this year.

Thanks are extended to Mr. Donald J. Ertel, Office, Chief of Research and Development, Department of the Army, for his assistance, and to Messers. William A. Strain, Eugene Draskowich, and Eugene S. Groseclose, Jr., of the US Army Management Systems Support Agency for coercing an obstreperous computer into providing an accurate, legible report. Thanks are also due Ms. Cheryl Gellerson for her assistance and patience in helping with the editorial effort.

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¹Department of the Army letter, "Research and Development Resource Data for In-House RDT&E Activities," dated 6 August 1973.

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SUMMARY

DEPARTMENT OF DEFENSE IN-HOUSE ROTC FACILITIES

PROGRAM DATA FOR FY 1973

TOTAL ANNUAL PROGRAM	(MILLIONS)
TOTAL INHOUSE PROGRAM	4090.979
TOTAL ROTC PROGRAM	2298.716
TOTAL INHOUSE ROTC	2657.118
TOTAL ANNUAL OPERATING COST	1499.672
	592.360

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHD	TOTAL PROFESSIONALS
MILITARY	24605	1205	8571
CIVILIAN	78941	3264	28823
TOTAL	103552	<b">4469</b">	<b">37424</b">

PHYSICAL FACILITIES (END OF FY 1973)

ACRES	10110.757
SPACE (THOUSANDS OF SQ FT)	
LABORATORY	27697.274
ADMINISTRATIVE	8990.712
OTHER	51390.964
TOTAL	88078.950
COST (MILLIONS)	
REAL PROPERTY	2078.519
EQUIPMENT	2844.200
TOTAL	<b">5822.719</b">

TABLE 1. ARMY ROTC ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1973

INSTALLATION	FUNDING DATA (BILLIONS \$)					PERSONNEL DATA					
	TOTAL	INHOUSE	ROTC	ROTC	MIL	TOTAL	PHD	PHD	PROF	PROF	CIV
AFROMEDICAL RESEARCH UNIT	FT. RUCKER, AL.	2,995	2,395	1,756	1,755	50	4	13	1	41	4
AIR DEFENSE BOARD	EL PASO, TEXAS	5,499	5,495	2,760	2,765	329	120	1	0	68	11
AIR MOBILITY R&D LABORATORY	MOUNTAIN VIEW, CAL.	18,473	12,469	37,931	12,377	40	569	2	24	13	251
ALTMARINE COMMUNICATIONS & ELECTRONICS BOARD	FT. BRAGG, N.C.	4,120	4,205	2,100	2,065	209	60	0	1	52	0
ARCTIC TEST CENTER	FT. GREENLY, AK.	6,346	6,283	2,429	2,866	299	25	1	0	62	5
ARMY AND ENGINEER BOARD	FT. KNOX, KENTUCKY	7,511	7,531	2,248	2,250	349	29	1	0	167	18
ARMY MATERIAL SYSTEMS ANALYSTS AGENCY	ABERDEEN PROV GR, MD	12,906	4,456	11,074	6,636	19	322	0	8	16	235
ATMOSPHERIC SCIENCES LABORATORY	WHITE SANDS NM, N.M.	13,031	11,800	9,829	8,681	467	201	1	11	43	122
AVIATION SYSTEMS TEST ACTIVITY	EDWARDS AFB, CAL.	5,215	5,235	4,395	4,395	60	104	0	0	37	27
AVIATION TEST BOARD	FT. RUCKER, AL.	9,554	7,625	6,300	3,771	214	134	0	1	60	10
AVIONICS LABORATORY	EATONTOWN, N.J.	19,763	15,457	12,737	10,466	13	249	0	5	18	151
BALISTICS RESEARCH LABORATORIES	ABERDEEN PROV GR, MD.	10,659	24,215	30,350	23,894	66	826	8	89	61	417
BENET WEAPONS LABORATORY	WATERTOWN, N.Y.	15,446	11,288	10,704	8,930	7	390	0	43	2	130
COMINT REGIONS R&E LABORATORIES	HANOVER, N.H.	8,190	6,719	4,769	3,876	41	242	1	28	36	84
COMINT SURVEILLANCE & TGT ACQUISITION LABS	FT. MONMOUTH, N.J.	40,739	16,200	40,739	16,200	23	320	0	13	33	201
COMMUNICATIONS AND LABORATORY	FT. MONMOUTH, N.J.	21,910	11,230	21,600	10,900	12	394	1	18	18	261
CONSTRUCTION ENGINEERING RESEARCH LABORATORY	URBANA, IL	7,456	4,046	6,186	5,526	9	177	0	37	4	109
DESERT TEST CENTER (LARSI)	DUGWAY, UTAH	15,756	16,100	11,844	11,059	201	736	3	16	171	129
EDGEMARSH ARSENAL LABORATORIES	EDGEMARSH ARSENAL, MD.	19,439	37,302	31,487	29,350	219	1181	54	67	152	326
ELECTRONIC PROVING GROUND	FT. McNICHOLS, CO.	12,955	10,078	7,045	5,337	27	100	0	2	47	64
ELECTRONIC WARFARE LABORATORY	FT. MONMOUTH, N.J.	32,553	15,201	32,164	14,796	50	417	0	3	11	198
ELECTRONICS TECHNOLOGY AND DEVICES LAB	FT. MONMOUTH, N.J.	17,704	10,567	16,747	9,871	7	377	4	38	12	237
ENGINEER TOPOGRAPHIC LABORATORIES	FT. RELYEA, VA.	10,216	6,304	9,998	6,167	20	310	2	22	15	181
ENGINEER WATERWAYS EXPERIMENT STATION	VICKSBURG, MISS.	20,915	24,509	14,506	12,153	50	1247	4	49	64	372
FIELD ARTILLERY BOARD	FT. SILL, OK.	4,468	4,757	1,146	1,035	368	44	0	0	72	2
FRANKFORD ARSENAL LABORATORIES	PHILADELPHIA, PA.	32,042	25,606	27,183	20,347	34	1666	0	46	24	633
HARRY DIAMOND LABORATORIES	WASHINGTON, D.C.	68,257	27,021	43,041	23,190	9	1978	3	67	9	800
IKIMAN ENGINEERING LABORATORY	FT. BENNING, GA.	6,692	5,292	6,089	6,689	38	100	1	10	22	65
INFANTRY BOARD	WASHINGTON, D.C.	1,692	1,692	0,932	0,932	56	26	29	1	30	6
INSTITUTE OF DENTAL RESEARCH	FT. SAM HOUSTON, TX.	3,186	3,146	1,635	1,635	134	90	23	3	161	19
INSTITUTE OF SURGICAL RESEARCH	ABERDEEN PROV GR, MD.	7,509	4,770	7,227	4,587	16	110	0	5	11	51
LAND WARFARE LABORATORY	PRESIDIO, S.F., CAL.	13,274	1,959	0,629	0,629	91	22	22	3	56	12
LEFTERMAN ARMY INSTITUTE OF RESEARCH	WATERTOWN, MASS.	25,502	14,861	18,799	11,277	9	597	7	64	13	217
MATERIALS AND MECHANICS RESEARCH CENTER	ABERDEEN PROV GR, MD.	26,242	23,770	9,502	6,439	77	912	0	1	45	162
MATERIAL TESTING DIRECTORATE	FORT DETRICK, MD.	1,739	1,739	1,640	1,440	27	64	3	3	17	14
MEDICAL BIODEENGINEERING R&D LABORATORY	DENVER, CO.	3,774	3,774	2,652	2,652	110	90	24	9	65	33
MEDICAL RESEARCH AND NUTRITION LAB, FGM	FOOT DETRICK, MD.	9,437	9,837	6,556	6,556	358	229	57	23	62	43
MEDICAL RESEARCH LABORATORY	FT. KNOX, KY.	2,635	2,495	1,749	1,749	115	132	11	9	74	23
MEDICAL RESEARCH UNIT	KUALA LUMPUR, MALAYSIA	0,359	0,359	0,274	0,274	9	0	5	0	7	0
MEDICAL RESEARCH UNIT	HALIFAX HEIGHTS, C.P.	0,249	0,249	0,140	0,140	10	11	2	0	5	0
MISSILE RES., DEV. AND ENGINEERING LAB	REDSTONE ARSENAL, AL.	103,309	44,521	91,955	33,469	40	1226	7	66	33	747
MOBILITY EQUIPMENT R&D CENTER	FT. RELYEA, VA.	109,060	26,042	49,710	19,000	71	1494	4	22	79	501
NATIONAL LABORATORIES	MATICK, MASS.	35,512	26,072	22,836	15,632	126	1193	17	92	54	456
NIGHT VISION LABORATORY	FT. BELVOIR, VA.	38,199	16,007	38,199	16,007	51	394	0	30	28	195
PICATINNY ARSENAL LABORATORIES	DOVER, N.H.	110,400	99,400	60,300	47,300	71	2503	0	60	53	1075
R&D TECHNICAL SUPPORT ACTIVITY	FT. MONMOUTH, N.J.	10,670	10,345	9,892	9,892	1	660	0	0	0	109
RESEARCH INST FOR REHABILITATION & SOCIAL SCI	WASHINGTON, D.C.	5,742	2,005	5,762	2,805	20	144	2	48	23	88
RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE	MASSACHUSETTS, MASS.	3,716	3,716	2,968	2,949	84	102	17	19	59	46
ROCK ISLAND ARSENAL LABORATORIES	ROCK ISLAND, IL.	21,061	15,232	14,720	9,894	16	764	4	18	15	231
TANK-AUTOMOTIVE LABORATORIES	MARSHALL, MI.	58,199	26,409	34,064	14,963	35	922	1	22	443	443
TRIATIC TEST CENTER	FT. CLAYTON, C.P.	3,954	3,954	2,625	2,625	95	78	0	9	30	10
WALTER REED ARMY INSTITUTE OF RESEARCH	WASHINGTON, D.C.	20,132	20,132	15,192	15,192	470	577	154	73	324	162
WHITE SANDS MISSLE RANGE	WHITE SANDS NM, N.M.	111,106	92,001	92,456	73,789	1077	3395	5	6	1104	642
YUMA PROVING GROUND	YUMA, ARIZONA	22,044	20,396	18,949	9,836	386	738	7	0	94	75
TOTALS		1279,270	780,849	942,907	571,200	7243	20816	495	1160	3772	10496

TABLE 2. ARMY ROTC FACILITIES DATA, FY 1973

INSTALLATION	ACRES	SPACE AND PROPERTY			COST (MILLIONS \$)		
		LABORATORY	ADMIN	OTHER	REAL PROPERTY	EQUIPMENT	
AFROMEDICAL RESEARCH UNIT	8	32,933	5,940	7,470	0,379	3,000	
AIR DEFENSE BOARD	26	36,590	36,646	76,945	41,000	12,971	
AIR MOBILITY R&D LABORATORY	109	45,014	43,308	15,384	1,474	5,446	
AIRBORNE COMMUNICATIONS & ELECTRONICS BOARD	180	0,000	50,079	63,485	1,191	3,076	
ARCTIC TEST CENTER	665354	0,000	40,059	236,175	12,571	5,997	
ARMED AND ENGINEER BOARD	FT. KNOX, KENTUCKY	0,000	63,568	192,233	1,426	2,017	
ARMY MATERIAL SYSTEMS ANALYSIS AGENCY	AREKDEEN PROV GR, MD.	4	8,511	72,013	1,771	0,425	
ATMOSPHERIC SCIENCES LABORATORY	WHITE SANDS MN, N.M.	45	0,056	0,025	48,000	2,500	
AVIATION SYSTEMS TEST ACTIVITY	EDWARDS AFB, CAL.	19	4,280	32,839	3,927	4,165	
AVIATION TEST BOARD	FT. RUCKER, AL.	1189	3,018	19,190	206,649	4,401	13,627
AVIATION MEDICAL LABORATORY	FATOMTOWN, N.J.	9	43,500	7,500	1,706	2,605	10,740
BALISTICS RESEARCH LABORATORIES	ABERDEEN PROV GR, MD.	3340	279,307	113,001	259,300	14,486	34,800
BENET WEARINGS LABORATORY	HATFIELD-LIFT, N.Y.	5	107,463	26,630	7,489	2,365	4,169
CIND REGIONS PRO LABORATORIES	HANOVER, N.H.	24	12,300	1,760	109,054	3,979	4,839
COMBAT SURVEILLANCE & TGT ACQUISITION LABS	FT. MONMOUTH, N.J.	71	114,351	5,075	11,971	2,419	5,000
COMMUNICATIONS AND LABORATORY	FT. MONMOUTH, N.J.	0	33,437	42,524	5,018	0,000	11,800
CONSTRUCTION ENGINEERING RESEARCH LABORATORY	IRVING, IL.	39	74,421	32,559	0,000	3,891	2,093
DESERT TEST CENTER (LAS)	DUGWAY, UTAH	840911	101,898	830,051	1715,963	40,551	16,569
FIREFIGHTER ARSENAL LABORATORIES	EDGEMARSH ARSENAL, MD.	4055	496,713	97,329	149,154	16,899	12,051
ELECTRONIC PRINTING GROUND	FT. MONMOUTH, AR.	49600	0,000	200,739	0,000	2,914	29,182
ELECTRONIC WARFARE LABORATORY	FT. MONMOUTH, N.J.	0	61,311	40,866	10,950	2,325	14,575
ELECTRONICS TECHNOLOGY AND DEVICES LAB	FT. MONMOUTH, N.J.	0	129,186	4,078	3,046	0,000	12,443
ENGINEER TOPOGRAPHIC LABORATORIES	FT. BELVOIR, VA.	0	55,899	10,929	3,700	0,000	10,489
ENGINEER WATERWAYS EXPERIMENT STATION	VICKSBURG, MISS.	1976	1394,970	346,807	190,229	15,315	25,956
FIELD ARTILLERY BOARD	FT. SILL, OK.	23	26,246	47,139	56,118	3,179	1,930
FRANKFORT ARSENAL LABORATORIES	PHILADELPHIA, PA.	43	576,661	149,872	462,372	19,498	12,232
HARRY DIAMOND LABORATORIES	WASHINGTON, D.C.	2257	291,602	46,119	54,154	11,874	74,509
INFANTRY BOARD	ABERDEEN PROV GR, MD.	10	26,500	17,405	29,953	0,709	2,700
INSTITUTE OF DENTAL RESEARCH	FT. BENNING, GA.	0	0,000	50,053	21,194	0,802	0,300
INSTITUTE OF SURGICAL RESEARCH	WASHINGTON, D.C.	4	9,325	5,486	7,330	0,631	0,800
LAND WARFARE LABORATORY	FT. SAN HOUSTON, TX.	1	25,424	0,400	19,000	1,968	1,317
LETTERTHAN ARMY INSTITUTE OF RESEARCH	ABERDEEN PROV GR, MD.	81	50,691	2,655	12,621	0,654	0,812
MATERIALS AND MECHANICS RESEARCH CENTER	WATERTOWN, MASS.	3	66,917	8,900	0,000	0,167	2,760
MATERIALS TESTING DIRECTORATE	ABERDEEN PROV GR, MD.	48	389,161	96,018	169,979	14,063	13,547
MEDICAL BIOMATERIALS R&D LABORATORY	FOOT DIAETRICK, MD.	2	27,000	22,000	37,000	2,376	0,967
MEDICAL RESEARCH AND NUTRITION LAB, FGM	DENVER, CO.	2	77,677	5,135	21,977	5,079	3,410
MEDICAL RESEARCH INST OF INFECTIOUS DISEASES	FT. DIAETRICK, MD.	57	93,217	13,810	198,731	17,824	3,213
MEDICAL RESEARCH LABORATORY	FT. KNOX, KY.	29	48,025	5,368	34,751	0,280	2,693
MEDICAL RESEARCH UNIT	RUALA LIMPIH NAYASIA	13	7,000	0,400	0,000	0,100	0,222
MISSILE R&D, DEV. AND ENGINEERING LAB	EDGEMARSH ARSENAL, AL.	11000	1164,000	262,000	406,000	25,278	36,794
MOTORCYCLE EQUIPMENT R&D CENTER	FT. BELVOIR, VA.	1060	666,922	132,972	193,600	19,134	31,082
NATIONAL LABORATORIES	NAITICK, MASS.	3054	925,000	65,900	274,600	30,026	13,655
NIGHT VISION LABORATORY	FT. BELVOIR, VA.	13	73,261	3,521	67,205	44,961	37,402
PILOTLESS ARSENAL LABORATORIES	DOVER, N.J.	5803	603,350	674,545	2368,895	74,247	34,240
PRO TECHNICAL SUPPORT ACTIVITY	FT. MONMOUTH, N.J.	136	50,520	0,600	227,830	8,400	7,500
RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI	WASHINGTON, D.C.	0	24,979	4,314	9,748	0,042	1,367
RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE	NAITICK, MASS.	4	60,421	10,363	28,647	3,663	1,800
REIN TSI MID ARSENAL LABORATORIES	ROCK ISLAND, IL.	19	114,617	179,498	205,677	3,940	10,721
TANK AUTOMOTIVE LABORATORIES	WARREN, MI.	1125	479,000	0,000	0,000	20,970	10,644
TRUCK TEST CENTER	FT. CLAYTON, C.P.	18470	12,455	59,244	197,265	1,120	4,076
WALTER REED ARMY INSTITUTE OF RESEARCH	WASHINGTON, D.C.	1175	349,300	59,150	0,000	0,000	14,903
WHITE SANDS MISSLE RANGE	WHITE SANDS MN, N.M.	5459300	1416,598	444,518	2864,254	166,167	164,620
YUMA DRIVING GROUND	YUMA, ARIZONA	870170	0,000	75,907	1194,818	31,241	47,900
TOTALS		7973899	11661,437	4311,362	13990,173	807,702	786,359

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TABLE 3. NAVY RDCE ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1973

LOCATION	NAME	FUNDING DATA (MILLIONS \$)						PERSONNEL DATA					
		TOTAL	TOTAL INHOUSE	RL/CE	RDCE	TOTAL MIL	TOTAL CIV	PHD MIL	PHD CIV	PROF MIL	PROF CIV		
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	MONTEREY, CA.	1.467	1.209	1.395	0.960	16	27	1	2	0	17		
AEROSPACE MEDICAL RESEARCH LABORATORY	PENSACOLA, FL.	3.750	3.750	3.317	3.317	31	124	12	14	22	47		
AEROSPACE RECOVERY FACILITY	EL CENTRO, CA.	6.564	5.033	2.404	2.415	166	119	1	0	11	25		
AIR DEVELOPMENT CENTER	JOHNSVILLE, PA.	136.607	56.519	87.536	42.426	387	2187	4	27	84	993		
AIR ENGINEERING CENTER	PHILADELPHIA, PA.	85.086	60.037	9.793	6.059	36	2188	0	5	13	404		
AIR PROPULSION TEST CENTER	TRENTON, N.J.	18.209	13.950	12.579	9.052	9	690	0	0	9	152		
AIR TEST CENTER	PATUXENT RIVER, MD.	85.933	71.254	31.800	27.949	1631	2439	3	5	213	457		
AIR TEST FACILITY (SHIP INSTALLATIONS)	LAKEBURST, N.J.	10.401	9.881	1.400	1.613	151	405	0	0	11	75		
BLOOD RESEARCH LABORATORY	CHELSEA, MS.	0.547	0.547	0.390	0.390	13	10	4	0	6	1		
CIVIL ENGINEERING LABORATORY	PORT HUENEME, CA.	13.442	12.471	10.601	9.618	16	340	1	38	11	137		
CLOTHING AND TEXTILE RESEARCH UNIT	NATICK, MS.	1.463	1.463	0.771	0.771	1	60	0	0	0	22		
COASTAL SYSTEMS LABORATORY	PANAMA CITY FL	17.806	16.022	10.480	9.050	160	977	3	18	15	240		
DENTAL RESEARCH INSTITUTE, NMC	GREAT LAKES, IL	0.603	0.603	0.339	0.339	18	17	2	2	11	14		
ELECTRONICS LABORATORY CENTER	SAN DIEGO, CA.	56.534	39.837	32.067	22.465	90	1473	1	63	31	729		
EXPLOSIVE ORDNANCE DISPOSAL FACILITY	INDIAN HEAD, MD	6.273	3.769	2.739	1.522	53	152	0	1	9	19		
MEDICAL FIELD RESEARCH LABORATORY	CAMP LEJEUNE, N.C.	1.434	1.434	0.788	0.748	34	42	4	2	5	6		
MEDICAL RESEARCH INSTITUTE	BETHESDA, MD.	7.922	7.521	5.057	5.056	203	210	55	34	77	59		
MEDICAL RESEARCH UNIT NO. 2	TAIPEI, TAIWAN	2.137	2.137	1.565	1.565	34	9	15	2	29	9		
MEDICAL RESEARCH UNIT NO. 3	CAIRO, EGYPT	1.867	1.867	0.856	0.856	31	260	0	4	12	4		
MEDICAL RESEARCH UNIT NO. 4	GREAT LAKES, IL	1.139	1.139	0.722	0.722	39	35	5	1	15	16		
MISSILE CENTER	POINT MUGU, CA.	85.513	68.162	27.466	24.445	445	1776	3	8	85	618		
ORDNANCE LABORATORY	WHITE OAK, MD.	98.794	61.082	73.594	41.623	49	2700	0	153	20	1117		
ORDNANCE MISSILE TEST FACILITY	WHITE SANDS, N.M.	4.112	3.412	2.171	1.606	153	82	2	1	31	5		
RESEARCH LABORATORY	WASHINGTON, D.C.	187.363	180.655	158.918	153.629	117	4026	1	601	41	1788		
SHIP RESEARCH AND DEVELOPMENT CENTER	WASHINGTON, D.C.	119.638	60.377	96.703	44.947	62	2895	0	107	25	1250		
SPACE SYSTEMS ACTIVITY	LOS ANGELES, CA.	6.494	1.074	4.406	0.760	15	36	1	1	15	27		
SUBMARINE MEDICAL RESEARCH LABORATORY	GROTON, CT	1.874	1.874	1.426	1.426	37	66	8	12	14	33		
UNDERSEA CENTER	SAN DIEGO, CA.	77.851	49.154	50.317	33.238	205	1645	0	98	14	602		
UNDERWATER SYSTEMS CENTER	NEWPORT, R.I.	109.114	87.668	67.684	40.356	170	3325	2	89	41	1450		
UNIT, FORT DETRICK	FREDERICK, MD.	0.224	0.224	0.091	0.091	16	1	2	0	6	0		
WEAPONS CENTER	CHINA LAKE, CA.	180.672	114.528	101.700	63.349	677	4412	8	137	75	1700		
WEAPONS EVALUATION FACILITY	ALBUQUERQUE, N.M.	5.385	5.385	0.996	0.996	194	98	0	1	39	42		
WEAPONS LABORATORY	DAHLGREN, VA.	96.466	77.453	37.870	30.570	86	2916	2	77	41	1135		
MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	SAN DIEGO, CA.	1.762	1.677	1.347	1.347	20	58	11	9	14	28		
PERSONNEL RESEARCH & DEVELOPMENT CENTER	SAN DIEGO, CA.	9.393	8.647	6.200	5.687	33	289	0	45	34	151		
TOXICOLOGY UNIT, NMNC	BETHESDA, MD.	0.579	0.579	0.415	0.415	16	7	1	0	7	2		
IC MISSILE RANGE	POINT MUGU, CA.	91.978	58.061	66.991	43.133	686	2883	3	9	86	468		
TOTALS		1535.273	1090.413	895.014	639.139	6162	38577	163	1562	1180	13904		

TABLE 4. NAVY RDT&E FACILITIES DATA, FY 1973

AFFILIATION	LOCATION	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)				COST (MILLIONS \$)	
		ACRES	LABORATORY	ADMIN	OTHER	REAL PROPERTY	EQUIPMENT
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	MONTEREY, CA.	0	1,000	5,012	10,440	0,000	0,395
L AEROSPACE MEDICAL RESEARCH LABORATORY	PENSACOLA, FL.	0	131,787	19,604	8,893	2,807	2,528
L AEROSPACE RECOVERY FACILITY	EL CENTRO, CA.	101200	44,000	10,000	263,000	6,598	4,750
L AIR DEVELOPMENT CENTER	JOHNSVILLE, PA.	831	884,000	56,000	413,000	24,301	37,020
L AIR ENGINEERING CENTER	PHILADELPHIA, PA.	560	872,778	94,161	1270,517	33,544	20,902
L AIR PROPELLSION TEST CENTER	TRENTON, N.J.	66	410,937	51,800	136,000	45,936	11,644
L AIR TEST CENTER	PATUXENT RIVER, MD.	6872	730,000	263,030	3684,000	124,216	39,089
L AIR TEST FACILITY (SHIP INSTALLATIONS)	LAKEHURST, N.J.	2500	59,204	29,598	91,906	35,420	7,569
L BLOOD RESEARCH LABORATORY	CHELSEA, MS.	0	6,000	0,160	1,000	0,000	0,546
L CIVIL ENGINEERING LABORATORY	POPO HUENEME, CA.	72	120,352	21,977	31,548	5,736	5,682
L CLOTHING AND TEXTILE RESEARCH UNIT	NATICK, MS.	2	10,000	7,000	3,000	0,275	0,600
L COASTAL SYSTEMS LABORATORY	PANAMA CITY FL	674	202,376	35,296	313,997	19,610	11,741
L DENTAL RESEARCH INSTITUTE, NYC	GREY LAKES, IL	1	8,900	5,100	6,000	0,000	0,490
L ELECTRONICS LABORATORY CENTER	SAN DIEGO, CA.	1591	421,758	115,543	77,620	12,219	36,532
L EXPLOSIVE ORDNANCE DISPOSAL FACILITY	INDIAN HEAD, MD	1084	50,771	28,777	49,999	3,007	1,965
L MEDICAL FIELD RESEARCH LABORATORY	CAMP LEJEUNE, N.C.	3	28,226	8,655	15,590	0,539	0,678
L MEDICAL RESEARCH INSTITUTE	BETHESDA, MD.	4	151,730	21,561	26,590	4,016	5,012
L MEDICAL RESEARCH UNIT NO. 2	TAIPEI, TAIWAN	2	32,882	16,075	49,364	0,101	0,908
L MEDICAL RESEARCH UNIT NO. 3	CAIRO, EGYPT	3	18,242	9,500	2,300	0,344	0,790
L MEDICAL RESEARCH UNIT NO. 4	GREAT LAKES, IL	0	22,053	16,716	18,975	0,387	0,450
L MISSILE CENTER	POINT MUGU, CA.	4	110,756	189,569	754,611	25,913	39,490
L ORDNANCE LABORATORY	WHITE OAK, MD.	1060	404,978	185,506	757,756	48,775	45,770
L ORDNANCE MISSILE TEST FACILITY	WHITE SANDS M.R., N.M.	112	84,310	30,540	239,240	6,673	3,369
L RESEARCH LABORATORY	WASHINGTON, D.C.	2133	2240,040	135,656	637,259	79,047	67,062
L SHIP RESEARCH AND DEVELOPMENT CENTER	WASHINGTON, D.C.	296	393,522	198,164	1605,876	66,850	44,841
L SPACE SYSTEMS ACTIVITY	LOS ANGELES, CA.	0	0,000	1,595	3,233	0,000	0,022
L SUBMARINE MEDICAL RESEARCH LABORATORY	GROTON CT	0	23,325	6,441	13,116	0,000	1,002
L UNDERSEA CENTER	SAN DIEGO, CA	36887	277,707	51,775	612,982	40,627	49,056
L UNDERWATER SYSTEMS CENTER	NEWPORT, R.I.	360	760,959	107,520	739,017	29,015	34,646
L UNIT, FORT DETRICK	FREDERICK, MD.	0	3,830	2,541	0,000	0,000	0,076
L WEAPONS CENTER	CHINA LAKE, CA.	1093019	722,689	181,001	5781,005	224,090	81,738
L WEAPONS EVALUATION FACILITY	ALBUQUERQUE, N.M.	7	0,400	53,592	98,196	7,400	0,450
L WEAPONS LABORATORY	DAHLGREN, VA.	4320	492,855	73,655	805,755	103,050	35,162
MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	SAN DIEGO, CA	0	11,177	4,500	0,000	0,000	0,354
PERSONNEL RESEARCH & DEVELOPMENT CENTER	SAN DIEGO, CA	1	47,300	4,900	0,000	0,220	0,295
TOXICOLOGY UNIT, NMRC	NETHERSDA, MD.	0	2,260	0,140	2,037	0,187	0,528
WIG MISSILE RANGE	POINT MUGU, CA.	29380	93,463	271,883	1397,228	146,900	174,300
TOTALS		1283046	9877,375	2294,541	19723,814	1099,870	767,452

TABLE 5. AIR FORCE ROTC ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1973

INSTALLATION	FUNDING DATA (MILLIONS '73)								PERSONNEL DATA							
	TOTAL	INHOUSE	ROTC	ROTC	TOTAL	TOTAL	PWD	PWD	PROF	PROF	CIV	CIV	MIL	CIV	MIL	CIV
AEROPROPULSION LABORATORY	WPAFB, OH.	55.468	9.454	54.539	8.925	49	355	10	14	42	180					
AEROSPACE RESEARCH LABORATORIES	WPAFB, OH	12.560	7.675	11.370	6.505	69	176	19	43	59	82					
ARMAMENT DEVELOPMENT AND TEST CENTER	EGLETON AFB, FL.	410.160	109.524	114.032	37.591	4367	2992	110	38	1363	687					
ARNOLD ENGINEERING DEVELOPMENT CENTER	TULLahoma, TN.	57.134	14.126	47.340	12.617	83	191	5	2	54	48					
AVIONICS LABORATORY	WPAFB, OH.	105.936	19.174	103.636	11.874	195	905	10	32	133	339					
CAMBRIDGE RESEARCH LABORATORY	L.G. HANSCOM FLD, MA	56.975	35.563	54.350	33.504	155	979	11	166	60	588					
FLIGHT DYNAMICS LABORATORY	WPAFB, OH.	58.400	26.500	51.474	24.117	210	967	21	35	126	517					
FLIGHT TEST CENTER	EDWARDS AFB, CA.	78.801	46.777	48.091	34.291	3256	1751	45	6	418	348					
FRANK J. SELVAN RESEARCH LABORATORY	USAF ACADEMY, CO.	1.457	1.457	0.925	0.525	22	9	12	1	24	3					
INDIAN RESOURCES LABORATORY	BROOKS AFB, TX.	16.073	6.139	13.824	4.650	127	254	8	34	96	322					
MATERIALS LABORATORY	WPAFB, OH.	48.095	11.305	35.397	10.210	56	341	22	45	40	234					
ROCKET PROPULSION LABORATORY	EDWARDS AFB, CA.	27.266	12.642	24.317	9.980	178	299	10	7	66	106					
ROME AFB DEVELOPMENT CENTER	GRIFFISS AFB, N.Y.	142.640	27.444	95.505	22.196	299	1133	5	11	85	513					
SPACE AND MISSILE TEST CENTER	VANDENBURG AFB, CA.	65.157	16.762	57.460	7.055	446	375	8	2	218	160					
USAF SCHOOL OF AEROSPACE MEDICINE	BROOKS AFB, TX.	19.258	17.320	10.338	8.533	645	367	92	36	237	151					
WEAPONS LABORATORY	KIRTLAND AFB, N.M.	90.957	40.132	79.367	29.247	790	594	93	20	604	195					
6570 AEROSPACE MEDICAL RESEARCH LABORATORY	WPAFB, OH	14.851	7.502	13.818	5.769	134	170	20	25	75	97					
TOTALS		1261.158	422.724	815.463	289.789	11101	11615	525	329	3596	4370					

TABLE 6. AIR FORCE RUTGE FACILITIES DATA, FY 1973

INSTALLATION	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)				COST (MILLIONS OF REAL PROPERTY EQUIPMENT		
	ACRES	LABORATORY	ADMIN	OTHER			
AEROPROPULSION LABORATORY	WPAFB, OH.	40	219.863	39.010	396.767	12.261	16.188
AIRSPACE RESEARCH LABORATORIES	WPAFB, OH	34	136.973	49.831	34.719	13.510	11.350
AVIATION DEVELOPMENT AND TEST CENTER	EGLEN AFB, FL.	464740	384.766	890.032	9292.634	217.741	233.023
ARMED ENGINEERING DEVELOPMENT CENTER	TULLAHOMA, TN.	40114	1159.177	201.411	532.216	363.675	60.175
AVIONICS LABORATORY	WPAFB, OH.	264	214.448	12.152	406.699	21.451	39.269
CAMBRIDGE RESEARCH LABORATORY	L.G. HANSCOM FLD, MS.	861	609.458	19.708	125.916	20.413	68.104
FLIGHT DYNAMICS LABORATORY	WPAFB, OH.	90	541.130	60.600	26.000	22.705	55.696
FLIGHT TEST CENTER	EDWARDS AFB, CA.	266323	551.892	313.342	6439.561	180.672	100.881
FRANK J. SEILER RESEARCH LABORATORY	USAF ACADEMY, CO.	0	9.400	2.000	0.246	1.380	1.500
HUMAN RESOURCES LABORATORY	BROOKS AFB, TX.	13	70.464	31.835	47.343	3.224	4.242
MATERIALS LABORATORY	WPAFB, OH.	4	6.110	0.062	0.061	6.999	11.647
ROCKET PROPULSION LABORATORY	EDWARDS AFB, CA.	54400	419.046	99.248	4.780	29.049	23.774
RUNE AIR DEVELOPMENT CENTER	GRIFFISS AFB, N.Y.	2804	648.337	105.614	200.690	29.346	79.172
SPACE AND MISSILE TEST CENTER	VANDENBURG AFB, CA.	45544	91.3C	354.304	431.954	96.600	495.861
USAF SCHOOL OF AEROSPACE MEDICINE	BROOKS AFB, TX.	93	473.070	99.154	73.004	10.129	23.587
WEAPONS LABORATORY	KIRTLAND AFB, N.M.	7347	402.469	80.914	15.360	13.631	38.649
6570 AEROSPACE MEDICAL RESEARCH LABORATORY	WPAFB, OH	30	211.900	18.000	15.200	11.570	15.899
TOTALS		862761	6132.002	2367.903	10044.064	1063.048	1281.217

TABLE 7. DEPARTMENT OF DEFENSE ROTC ACTIVITIES: PROGRAM AND PERSONNEL DATA, FY 1973

INSTALLATION ARMED FORCES RADIobiology Res. INSTITUTE	BEYMESIM, MO	FUNDING DATA (BILLIONS \$)				PERSONNEL DATA						
		TOTAL		INHOUSE		TOTAL		PHD		PHD		PROF
		INHOUSE	ROTC	INHOUSE	ROTC	MIL	CIV	MIL	CIV	MIL	CIV	MIL
		5.278	4.728	3.734	3.544	97	139	22	17	53	53	
	TOTALS	5.278	4.728	3.734	3.544	97	139	22	17	53	53	

SUMMARY

DEPARTMENT OF DEFENSE IN-HOUSE R&D LABORATORIES

PROGRAM DATA FOR FY 1973

	(MILLIONS)
TOTAL ANNUAL LABORATORY PROGRAM	2467.159
TOTAL IN-HOUSE PROGRAM	1504.473
TOTAL RETE PROGRAM	2046.435
TOTAL IN-HOUSE R&D	1116.792
TOTAL ANNUAL OPERATING COST	376.496

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PRO	TOTAL PROFESSIONALS
MILITARY	8125	706	3752
CIVILIAN	56571	7118	26251
TOTAL	65096	4824	30033

PHYSICAL FACILITIES (END OF FY 1973)

ACRES	1243516
SPACE (THOUSANDS OF SQ FT)	
LABORATORY	20500.997
ADMINISTRATIVE	5466.762
OTHER	19886.364
TOTAL	46933.063
COST (MILLIONS)	
REAL PROPERTY	1310.132
EQUIPMENT	1296.000
TOTAL	2606.140

TABLE 1A. ARMY R&D LABORATORIES: PROGRAM AND PERSONNEL DATA, FY 1973

INSTALLATION	FUNDING DATA (MILLIONS \$)										PERSONNEL DATA					
	TOTAL	LABORATORY	OFFICE	ADVICE	RESEARCH	TOTAL	LABORATORY	OFFICE	ADVICE	RESEARCH	MIL	CIV	MIL	CIV	MIL	CIV
AEROMEDICAL RESEARCH UNIT	2.195	2.305	1.756	1.756	0	20	24	13	1	41	4					
AIR MOBILITY R&D LABORATORY	30.423	12.069	17.931	12.377	60	500	2	24	13	253						
ATMOSPHERIC SCIENCES LABORATORY	13.031	11.000	9.820	8.603	467	281	1	11	43	122						
AVIATICS LABORATORY	17.743	15.457	12.737	10.464	13	261	0	5	18	151						
BALLISTICS RESEARCH LABORATORIES	30.607	24.265	18.358	23.884	64	826	0	65	61	417						
BIOMECHANICAL WEAPONS LABORATORY	13.644	13.260	10.706	8.330	7	390	0	2	190							
CLOUD REGIONS R&D LABORATORIES	0.190	0	0	0	0	0	0	0	0	0						
COMBAT SURVEILLANCE & TGT ACQUISITION LABS	40.733	16.200	10.738	16.200	23	320	0	13	31	201						
COMMUNICATIONS ADP LABORATORY	31.930	11.230	10.900	12.394	12	394	1	19	18	261						
CONSTRUCTION ENGINEERING RESEARCH LABORATORY	7.456	6.866	6.100	3.526	5	177	0	37	4	109						
DETERMINED ABSFMN LABORATORIES	39.439	37.302	31.487	29.358	219	1193	34	67	152	926						
DEFENSIVE ELECTRONIC WARFARE LABORATORY	32.549	19.201	32.164	14.796	50	817	0	3	11	398						
DEFENSIVE ELECTRONICS TECHNOLOGY AND DEVICES LAB	17.709	10.567	16.747	9.871	6	377	4	38	12	237						
ENGINEER TOPOGRAPHIC LABORATORIES	10.216	6.384	9.496	6.167	20	318	2	22	19	181						
ENGINEER WATERWAYS EXPERIMENT STATION	26.505	24.564	10.506	12.133	50	1247	4	43	65	372						
FRANKFORD ARSENAL R&D LABORATORIES	32.442	25.676	27.181	20.747	36	1866	0	46	76	633						
HAPPY DIAMOND LABORATORIES	60.297	27.421	43.041	23.190	9	2970	3	67	9	600						
HUMAN ENGINEERING LABORATORY	6.692	5.292	6.009	4.659	30	100	1	10	22	63						
INSTITUTE OF DENTAL RESEARCH	1.492	1.047	0.932	0.932	56	26	23	3	30	6						
INSTITUTE OF SURGICAL RESEARCH	3.195	3.246	1.639	1.635	136	60	23	3	141	19						
LAND WARFARE LABORATORY	3.709	4.770	7.227	4.507	16	110	0	5	11	50						
LEATHERMAN ARMY INSTITUTE OF RESEARCH	7.309	4.309	6.629	6.629	91	72	22	3	54	12						
MATERIALS AND MECHANICS RESEARCH CENTER	13.276	14.061	10.999	11.277	9	597	7	64	13	217						
MEDICAL REINFORCING R&D LABORATORY	1.730	1.730	1.440	1.440	27	64	3	3	17	16						
MEDICAL RESEARCH AND NUTRITION LAB, FON	1.774	3.774	2.492	2.052	110	99	24	9	65	33						
MEDICAL RESEARCH INST OF INFECTIOUS DISEASES	9.437	9.837	6.556	6.556	399	229	97	23	62	41						
MEDICAL RESEARCH UNIT	2.692	2.693	1.749	1.749	113	122	11	4	74	23						
MEDICAL RESEARCH UNIT	0.359	0.359	0.276	0.276	8	0	5	0	7	0						
MISSILE RES., DEV. AND ENGINEERING LAB	0.249	0.249	0.140	0.140	10	11	2	0	5	0						
MOTOR EQUIPMENT R&D CENTER	103.309	44.571	93.299	33.469	40	1226	7	66	33	747						
NIGHT VISION LABORATORY	109.060	26.042	49.710	19.500	72	1494	4	22	79	501						
PILOTING AND AIRMAN LABORATORIES	35.512	26.072	22.436	15.632	126	1183	17	92	54	456						
RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI	36.194	16.807	18.197	16.007	51	396	0	30	28	195						
RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE	110.400	97.400	60.300	62.300	71	2403	0	60	51	1073						
ROCK ISLAND ARSENAL LABORATORIES	3.716	3.716	2.940	2.950	28	144	2	44	23	68						
TRUCK-AUTOMOTIVE LABORATORIES	21.041	15.232	16.720	9.894	64	102	17	19	59	46						
WEAPONS RESEARCH ARMY INSTITUTE OF RESEARCH	58.979	26.409	36.006	14.903	16	764	4	18	15	291						
TOTALS	1017.702	593.116	743.397	622.690	3085	30954	677	1120	1752	9186						

TABLE 28. ARMY R&D FACILITIES DATA, FY 1973

INSTALLATION	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)				COST (BILLIONS \$)
	ACRES	LABORATORY	ADMIN	OTHER	
AERONAUTICAL RESEARCH UNIT					0.374 3.000
AIR MOBILITY R&D LABORATORY					1.474 5.446
ATMOSPHERIC SCIENCES LABORATORY					48.000 2.500
AUTOMOTIVE LABORATORY					2.605 10.740
BALLISTICS RESEARCH LABORATORIES					14.484 34.000
BENELUX ARMS LABORATORY					2.365 4.148
COLD WEATHER R&D LABORATORIES					3.979 4.839
COMBAT SURVIVAL AND TGT ACQUISITION LABS					2.418 5.000
COMMUNICATIONS AND LABORATORY					0.000 11.800
CONSTRUCTION ENGINEERING RESEARCH LABORATORY					3.851 2.093
EDGEMUND ARSENAL LABORATORIES					16.899 12.851
ELECTRONIC WARFARE LABORATORY					2.525 14.575
ELECTRONICS TECHNOLOGY AND DEVICES LAB					0.000 12.443
ENGINEER TOPOGRAPHIC LABORATORIES					0.000 10.488
ENGINEER WARFARE EXPERIMENT STATION					15.313 25.996
FRANKFORD ARSENAL LABORATORIES					19.494 12.232
HARRY DIAMOND LABORATORIES					11.874 24.509
HUMAN ENGINEERING LABORATORY					0.709 2.700
INSTITUTE OF DENTAL RESEARCH					0.631 0.000
INSTITUTE OF SURGICAL RESEARCH					1.968 1.317
LAND WARFARE LABORATORY					0.639 0.612
LETTERMAN ARMY INSTITUTE OF RESEARCH					0.467 2.760
MATERIALS AND MECHANICS RESEARCH CENTER					16.043 13.567
MEDICAL BIENGINEERING R&D LABORATORY					2.574 0.967
MEDICAL RESEARCH AND NUTRITION LAB, FGM					5.074 3.411
MEDICAL RESEARCH INST OF INFECTIOUS DISEASES					17.824 3.213
MEDICAL RESEARCH LABORATORY					0.240 2.693
MEDICAL RESEARCH UNIT					0.100 0.722
MEDICAL RESEARCH UNIT					0.000 0.061
MISSILE RES., DEV. AND ENGINEERING LAB					25.278 36.796
MOBILITY EQUIPMENT R&D CENTER					19.134 31.002
NATICK LABORATORIES					39.024 13.655
NIGHT VISION LABORATORY					43.961 37.402
PICATINNY ARSENAL LABORATORIES					74.247 54.240
RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI					0.042 1.367
RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE					3.663 1.800
ROCK ISLAND ARSENAL LABORATORIES					3.940 10.721
TANK-AUTOMOTIVE LABORATORIES					20.970 10.649
WALTER REED ARMY INSTITUTE OF RESEARCH					0.000 14.901
TOTALS	9570	8779.321	2556.064	5576.895	420.264 442.342

TABLE 34. NAVY R&D LABORATORIES, PROGRAM AND PERSONNEL DATA, FY 1973

INSTALLATION	FUNDING DATA (MILLIONS \$)								PERSONNEL DATA					
	TOTAL	INH/USE	TOTAL	INH/USE	TOTAL	TOTAL	PHD	PHD	PROF	PROF	CIV			
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	1.867	1.209	1.399	0.948	16	27	1	2	8	17				
NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY	PENSACOLA, FL.	3.750	3.750	3.317	3.317	31	129	12	14	22	47			
NAVAL AIR DEVELOPMENT CENTER	JOHNSVILLE, PA.	136.627	56.519	87.536	42.426	387	2187	4	27	94	993			
NAVAL AIR ENGINEERING CENTER	PHILADELPHIA, PA.	85.086	40.037	9.793	6.859	36	2180	0	5	13	404			
NAVAL BIOMEDICAL RESEARCH LABORATORY	CHELSEA, MS.	0.567	0.567	0.390	0.390	13	10	4	0	6	1			
NAVAL CIVIL ENGINEERING LABORATORY	PORT HUENEME, CA.	13.462	12.471	10.681	9.618	16	340	1	38	11	137			
NAVAL CLOTHING AND TEXTILE RESEARCH UNIT	HATICK, MS.	1.463	1.463	0.771	0.771	1	60	0	0	0	22			
NAVAL COASTAL SYSTEMS LABORATORY	PANAMA CITY FL	17.806	16.022	10.480	9.050	160	577	3	18	15	240			
NAVAL DENTAL RESEARCH INSTITUTE, NRC	GREAT LAKES, IL	0.603	0.603	0.339	0.339	18	17	2	2	11	16			
NAVAL ELECTRONICS LABORATORY CENTER	SAN DIEGO, CA.	56.534	39.837	32.067	22.465	90	1473	1	63	31	729			
NAVAL MEDICAL FIELD RESEARCH LABORATORY	CAMP LF JEUNE, R.O.C.	1.434	1.434	0.788	0.788	34	42	4	2	5	6			
NAVAL MEDICAL RESEARCH INSTITUTE	BETHESDA, MD.	7.522	7.521	5.057	5.056	203	210	55	34	77	59			
NAVAL MEDICAL RESEARCH UNIT NO. 2	TAIPEI, TAIWAN	2.137	2.137	1.365	1.365	36	9	15	2	29	5			
NAVAL MEDICAL RESEARCH UNIT NO. 3	CAIRO, EGYPT	1.867	1.867	0.856	0.856	31	260	0	4	12	4			
NAVAL MEDICAL RESEARCH UNIT NO. 4	GREAT LAKES, IL	1.139	1.139	0.722	0.722	35	35	5	1	19	14			
NAVAL DRENAGE LABORATORY	WHITE OAK, MD.	98.794	61.082	73.394	61.623	49	2700	3	153	20	1117			
NAVAL RESEARCH LABORATORY	WASHINGTON, D.C.	187.363	180.655	158.910	153.629	117	4026	1	601	41	1788			
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER	WASHINGTON, D.C.	119.638	60.377	96.703	44.947	62	2893	0	107	25	1250			
NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY	GROTON CT	1.074	1.074	1.426	1.426	37	66	0	12	14	33			
NAVAL UNDERSEA CENTER	SAN DIEGO, CA	77.958	49.154	30.317	33.238	285	1645	0	98	24	682			
NAVAL UNDERWATER SYSTEMS CENTER	NEWPORT, R.I.	109.114	87.648	67.684	60.356	170	3325	2	89	41	1450			
NAVAL UNIT, FORT DETRICK	FREDERICK, MD.	0.226	0.224	0.091	0.091	16	1	2	0	6	0			
NAVAL WEAPONS CENTER	CHINA LAKE, CA.	180.672	114.520	101.700	63.369	677	4412	0	137	75	1708			
NAVAL WEAPONS LABORATORY	DAHLGREN, VA.	96.456	77.453	37.870	30.570	84	2916	2	77	41	1135			
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	SAN DIEGO, CA	1.762	1.677	1.347	1.347	20	58	11	9	14	28			
NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER	SAN DIEGO, CA	9.393	8.647	6.200	5.687	33	289	0	45	34	151			
NAVY TOXICOLOGY UNIT, NNMC	BETHESDA, MD.	0.579	0.579	0.415	0.415	16	7	1	0	7	2			
TOTALS		1215.721	850.636	742.942	521.848	2659	29899	150	1540	671	12036			

TABLE 4A. NAVY R&D FACILITIES DATA, FY 1973

INSTALLATION	ADDRESS	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLIONS \$)	
		ACRES	LABORATORY	ADMIN	OTHER	REAL PROPERTY EQUIPMENT
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	MONTEREY, CA.	0	1,000	3,012	10,440	0.000 0.395
NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY	PENSACOLA, FL.	0	131,787	19,606	8,893	2,807 2,520
NAVAL AIR DEVELOPMENT CENTER	JOHNSVILLE, PA.	831	994,000	56,000	413,000	24,301 37,020
NAVAL AIR ENGINEERING CENTER	PHILADELPHIA, PA.	561	872,778	94,161	1270,517	33,544 20,907
NAVAL BIOLOGIC RESEARCH LABORATORY	CHELSEA, MS.	0	6,000	0,160	1,000	0,000 0,146
NAVAL CIVIL ENGINEERING LABORATORY	PORT HUENEME, CA.	72	120,352	21,977	31,548	5,758 5,682
NAVAL CLOTHING AND TEXTILE RESEARCH UNIT	HATICK, MS.	2	10,000	7,000	3,000	0,275 0,600
NAVAL COASTAL SYSTEMS LABORATORY	PANAMA CITY, FL	674	202,376	35,296	313,997	18,618 11,741
NAVAL DEFENSE RESEARCH INSTITUTE, NYC	GREAT LAKES, IL	1	6,900	5,100	6,000	0,000 0,490
NAVAL ELECTRONICS LABORATORY CENTER	SAN DIEGO, CA.	1591	421,758	115,543	77,620	12,219 36,532
NAVAL MEDICAL FIELD RESEARCH LABORATORY	CAMP LEJEUNE, N.C.	3	29,226	9,655	15,590	0,939 0,678
NAVAL MEDICAL RESEARCH INSTITUTE	BETHESDA, MD.	4	151,730	21,561	26,590	4,016 9,012
NAVAL MEDICAL RESEARCH UNIT NO. 2	TAIPEI, TAIWAN	2	32,842	16,075	48,364	0,101 0,908
NAVAL MEDICAL RESEARCH UNIT NO. 3	CAIRO, EGYPT	1	18,242	9,500	2,500	0,344 0,790
NAVAL MEDICAL RESEARCH UNIT NO. 4	GREAT LAKES, IL	0	211,053	16,716	18,975	0,387 0,450
NAVAL ORDNANCE LABORATORY	WHITE OAK, MD.	1060	404,978	105,506	757,756	48,779 45,770
NAVAL RESEARCH LABORATORY	WASHINGTON, D.C.	2131	2260,040	139,656	637,259	79,047 67,062
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER	WASHINGTON, D.C.	296	373,322	198,164	1409,876	66,850 64,841
NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY	GROTON, CT	0	23,325	6,441	13,110	0,200 1,002
NAVAL UNIFSEAS CENTER	SAN DIEGO, CA	36887	277,107	51,775	612,982	46,627 49,056
NAVAL UNIN-WATER SYSTEMS CENTER	NEWPORT, R.I.	360	760,939	107,528	739,019	29,015 36,646
NAVAL UNIT, FORT DETRICK	FREDERICK, MD.	0	3,810	2,341	0,000	0,000 0,076
NAVAL WEAPONS CENTER	CHINA LAKE, CA.	1093019	722,469	181,001	5781,805	224,098 61,730
NAVAL WEAPONS LABORATORY	DAKGREEN, VA.	4320	492,858	73,693	838,755	103,050 35,862
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT	SAN DIEGO, CA	0	11,177	4,500	0,000	0,000 0,354
NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER	SAN DIEGO, CA	1	47,300	4,900	0,000	0,210 0,295
NAVY TECHNOLOGY UNIT, NMPC	BETHESDA, MD.	0	2,260	0,300	2,637	0,187 0,528
TOTALS		1141769	8293,534	1386,167	13004,441	695,738 686,804

TABLE 5A. AIR FORCE R&D LABORATORIES, PROGRAM AND PERSONNEL DATA, FY 1973

INSTALLATION	FUNDING DATA (MILLIONS \$)						PERSONNEL DATA					
	TOTAL	INHOUSE	ADGE	ADGE	TOTAL	MIL	CIV	MIL	CIV	MIL	PROF	CIV
AEROPROPULSION LABORATORY	WPAFB, OH.	55.468	9.454	54.539	8.525	49	355	10	14	42	100	
AEROSPACE RESEARCH LABORATORIES	WPAFB, OH	12.540	7.675	11.370	6.505	69	174	19	43	59	82	
AVIONICS LABORATORY	WPAFB, OH	105.936	14.174	103.636	18.974	195	905	18	32	233	339	
CAMBRIDGE RESEARCH LABORATORY	L.G. HANSCOM FLD, MA	56.975	35.563	54.350	33.504	155	970	11	166	60	308	
FLIGHT DYNAMICS LABORATORY	WPAFB, OH	58.490	26.500	51.474	26.117	210	967	21	35	126	317	
FRAK J. SEILER RESEARCH LABORATORY	USAF ACADEMY, CO	1.457	1.457	0.525	0.525	22	9	12	1	24	3	
HUMAN RESOURCES LABORATORY	BROOKS AFB, TX	16.073	6.139	13.826	4.450	127	254	0	34	54	122	
MATERIALS LABORATORY	WPAFB, OH	48.095	11.305	35.397	10.210	56	341	22	45	60	234	
ROCKET PROPULSION LABORATORY	EDWARDS AFB, CA	27.246	12.642	24.317	9.900	178	299	10	7	64	106	
ROME AIR DEVELOPMENT CENTER	GRIFFISS AFB, N.Y.	162.660	27.644	95.505	22.196	299	1133	5	11	85	513	
WEAPONS LABORATORY	KIRTLAND AFB, N.M.	90.957	40.132	79.347	29.267	790	394	93	20	684	495	
6570 AEROSPACE MEDICAL RESEARCH LABORATORY	WPAFB, OH	14.861	7.502	13.118	5.760	134	170	20	25	75	97	
TOTALS		630.658	200.195	537.402	166.902	2284	3979	257	641	1306	2976	

TABLE 6A. AIR FORCE R&D FACILITIES DATA, FY 1973

INSTALLATION	ACRES	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLIONS \$)	
		LABORATORY	ADMIN	OTHER	REAL PROPERTY	EQUIPMENT
AEROPROPULSION LABORATORY	WPAFB, OH.	40	219.863	39.010	396.747	12.261 16.188
AEROSPACE RESEARCH LABORATORIES	WPAFB, OH.	34	136.873	49.837	34.719	13.580 11.350
AVIATION LABORATORY	WPAFB, OH.	264	214.448	12.152	406.699	21.451 39.269
CAUCUS RESEARCH LABORATORY	L.G. HANSCOM FLD, MA.	861	609.438	19.708	125.916	20.413 68.104
FLIGHT DYNAMICS LABORATORY	WPAFB, OH.	90	541.130	60.600	26.000	22.705 55.676
FRANK J. STILLER RESEARCH LABORATORY	USAF ACADEMY, CO.	0	9.400	2.000	0.240	1.300 1.300
INHUMAN RESOURCES LABORATORY	BROOKS AFB, TX.	13	70.466	31.835	47.543	3.227 4.242
MATERIALS LABORATORY	WPAFB, OH.	9	0.114	0.062	0.061	6.9% 11.847
ROCKET PROPULSION LABORATORY	EDWARDS AFB, CA.	54400	619.046	99.268	4.780	29.869 23.774
RUMF AIR DEVELOPMENT CENTER	GRINFLISS AFB, N.Y.	2806	645.337	105.414	200.690	29.346 79.172
WEAPONS LABORATORY	KIRTLAND AFB, N.M.	7397	402.469	80.914	15.540	13.633 38.449
6570 AEROSPACE MEDICAL RESEARCH LABORATORY	WPAFB, OH	30	211.900	10.000	15.200	11.570 15.899
TOTALS		65944	3483.482	511.500	1274.115	184.231 365.670

TABLE 7A. DEPARTMENT OF DEFENSE RDT&E FACILITIES DATA, FY 1973

INSTALLATION	ADDRESS	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)				COST (MILLIONS \$)
		ACRES	LABORATORY	ADMIN	OTHER	
ARMED FORCES RADIobiology Res. INSTITUTE	NEETHESDA, MD	11	24.660	14.936	32.913	7.899 3.172
TOTALS		10	24.660	14.936	32.913	7.899 3.172

TABLE 8 - ARMY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

	<u>Command Chain</u>	
	<u>Intermediate</u>	<u>Command</u>
Aeromedical Research Unit	Medical R&D Command	The Surgeon General
Air Mobility R&D Laboratory	Aviations Systems Command	Army Materiel Command
Atmospheric Sciences Laboratory	Electronics Command	Army Materiel Command
Avionics Laboratory	Electronics Command	Army Materiel Command
Ballistics Research Laboratories	--	Army Materiel Command
Benet Weapons Laboratories	Armament Command *	Army Materiel Command
Cold Regions R&E Laboratories	--	Chief of Engineers
Combat Surveillance & Target Acquisition Labs	Electronics Command	Army Materiel Command
Communications ADP Laboratory	Electronics Command	Army Materiel Command
Construction Engineering Research Laboratory	--	Chief of Engineers
Edgewood Arsenal Laboratories	Armament Command *	Army Materiel Command
Electronic Warfare Laboratory	Electronics Command	Army Materiel Command
Electronics Technology & Devices Laboratory	Electronics Command	Army Materiel Command
Engineer Topographic Laboratories	--	Chief of Engineers
Engineer Waterways Experiment Station	--	Chief of Engineers
Frankford Arsenal Laboratories	Armament Command *	Army Materiel Command
Harry Diamond Laboratories	--	Army Materiel Command
Human Engineering Laboratory	--	Army Materiel Command
Institute of Dental Research	Medical R&D Command	The Surgeon General
Institute of Surgical Research	Medical R&D Command	The Surgeon General
Land Warfare Laboratory	--	Army Materiel Command
Lettermar Army Institute of Research	Medical R&D Command	The Surgeon General
Materials and Mechanics Research Center	--	Army Materiel Command
Medical Bioengineering R&D Laboratory	Medical R&D Command	The Surgeon General
Medical Research and Nutrition Laboratory	Medical R&D Command	The Surgeon General
Medical Research Institute of Infectious Diseases	Medical R&D Command	The Surgeon General
Medical Research Laboratory (Fort Knox)	Medical R&D Command	The Surgeon General
Medical Research Unit (Mayaysia)	Medical R&D Command	The Surgeon General
Medical Research Unit (Canal Zone)	Medical R&D Command	The Surgeon General

TABLE 8 (Continued)

	<u>Command Chain</u>	
	<u>Intermediate</u>	<u>Command</u>
Missile RD&E Laboratory	Missile Command	Army Materiel Command
Mobility Equipment R&D Center	Troop Support Command *	Army Materiel Command
Natick Laboratories	Troop Support Command *	Army Materiel Command
Night Vision Laboratory	Electronics Command	Army Materiel Command
Picatinny Arsenal Laboratories	Armament Command *	Army Materiel Command
Research Institute for Behavioral and Social Sciences	--	Office of Chief of Research & Development
Research Institute of Environmental Medicine	Medical R&D Command	The Surgeon General
Rock Island Arsenal Laboratories	Armament Command *	Army Materiel Command
Tank-Automotive Laboratories	Tank-Automotive Command	Army Materiel Command
Walter Reed Army Institute of Research	Medical R&D Command	The Surgeon General

* Effective 1 July 1973

TABLE 9 - NAVY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

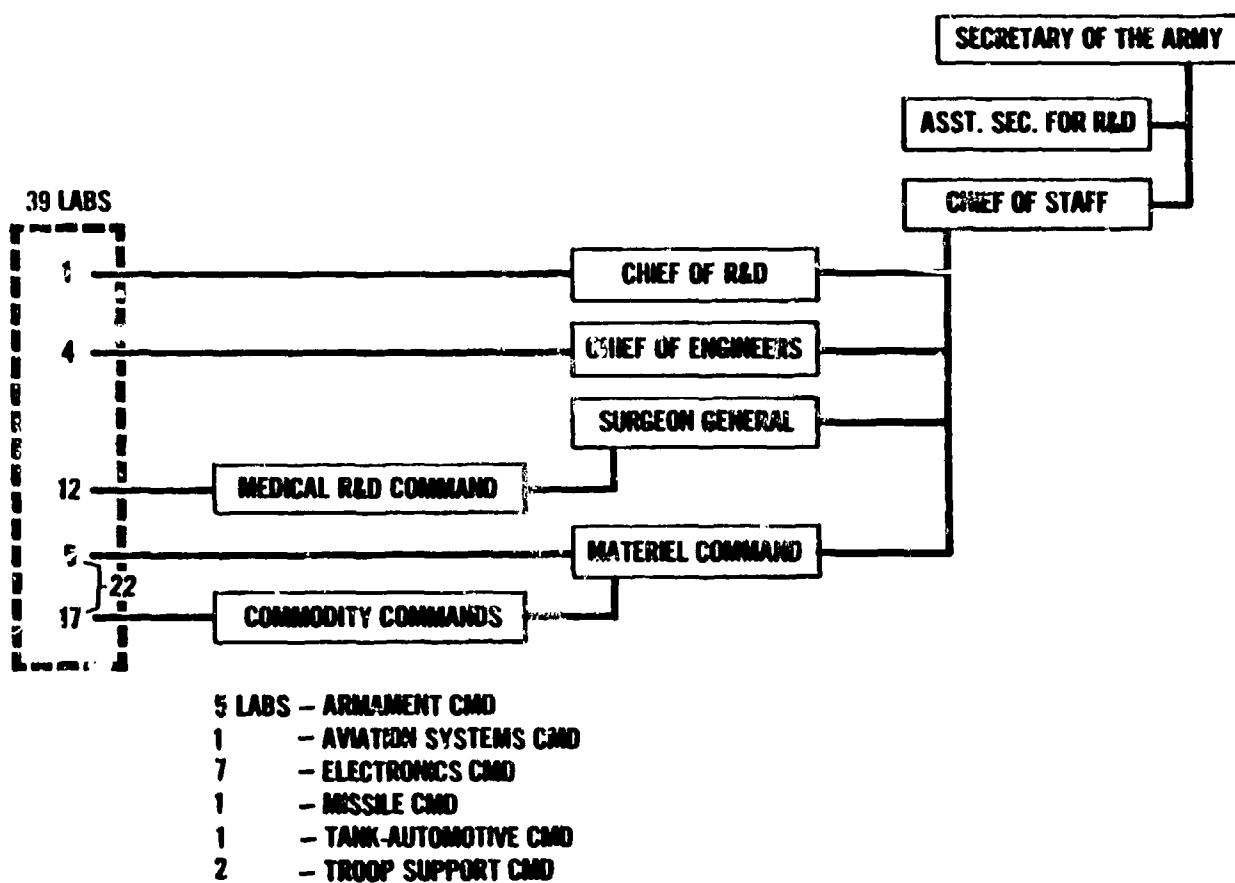
	<u>Command Chain</u>	
	<u>Intermediate</u>	<u>Command</u>
Environmental Prediction Research Facility	Naval Air Systems Command	Chief of Naval Material
Naval Aerospace Medical Research Laboratory	--	C, Bur of Med/Sur
Naval Air Development Center	--	Chief of Naval Material
Naval Air Engineering Center	Naval Air Systems Command	Chief of Naval Material
Naval Blood Research Laboratory	--	C, Bur of Med/Sur
Naval Civil Engineering Laboratory	--	Chief of Naval Material
Naval Clothing and Textile Research Unit	Naval Supply Sys Command	Chief of Naval Material
Naval Coastal Systems Laboratory	--	Chief of Naval Material
Naval Dental Research Institute, NTC	--	C, Bur of Med/Sur
Naval Electronics Laboratory Center	--	Chief of Naval Material
Naval Medical Field Research Laboratory	--	Chief of Naval Material
Naval Medical Research Institute	--	C, Bur of Med/Sur
Naval Medical Research Unit No. 2	--	C, Bur of Med/Sur
Naval Medical Research Unit No. 3	--	C, Bur of Med/Sur
Naval Medical Research Unit No. 4	--	C, Bur of Med/Sur
Naval Ordnance Laboratory	--	Chief of Naval Material
Naval Research Laboratory	--	Chief of Naval Research
Naval Ship Research and Development Center	--	Chief of Naval Material
Naval Submarine Medical Research Laboratory	--	Chief of Naval Material
Naval Undersea Center	--	Chief of Naval Material
Naval Underwater Systems Center	--	Chief of Naval Material
Naval Unit, Fort Detrick	--	C, Bur of Med/Sur
Naval Weapons Center	--	Chief of Naval Material
Naval Weapons Laboratory	--	Chief of Naval Material
Navy Medical Neuropsychiatric Research Unit	--	C, Bur of Med/Sur
Navy Personnel Research & Development Center	--	Chief of Naval Personnel
Navy Toxicology Unit, NNMC	--	C, Bur of Med/Sur

TABLE 10 - AIR FORCE RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

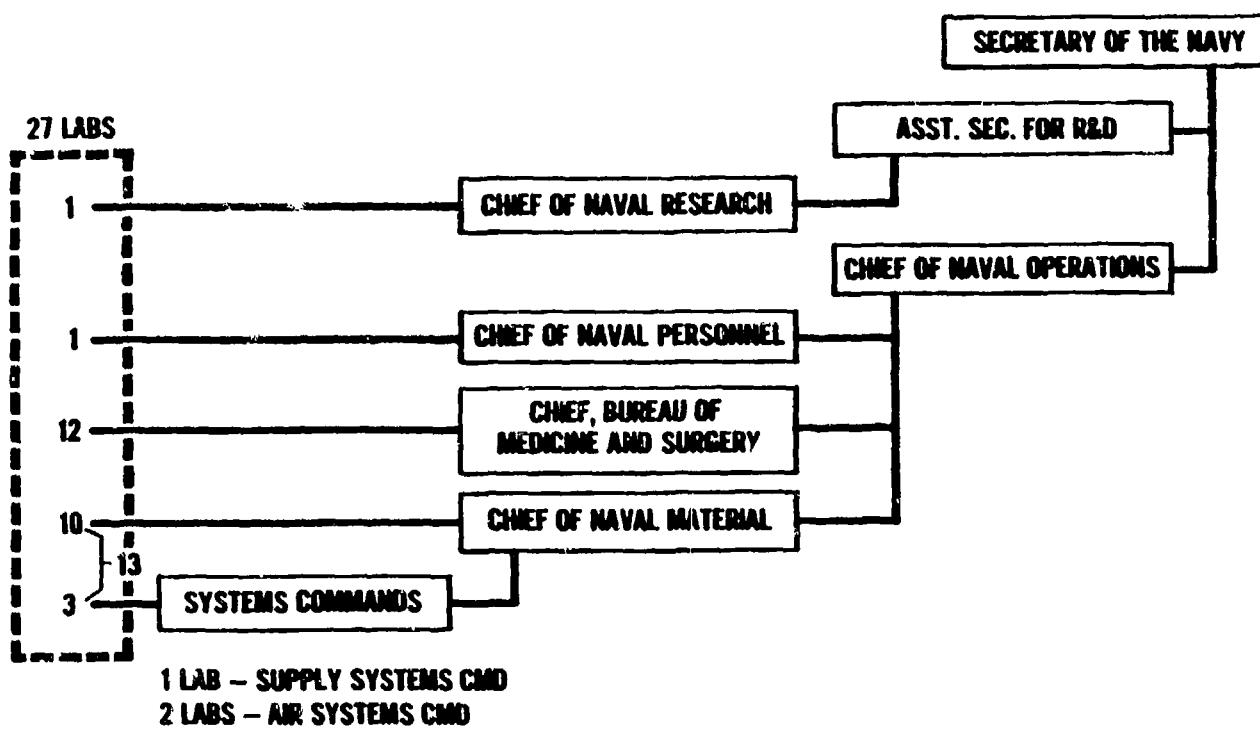
	<u>Command Chain</u>	
	<u>Intermediate</u>	<u>Command</u>
Aeropropulsion Laboratory		AF Systems Command
Aerospace Research Laboratories		AF Systems Command
* Armament Laboratory	Armament Dev & Test Center	AF Systems Command
Avionics Laboratory		AF Systems Command
Cambridge Research Laboratory		AF Systems Command
Flight Dynamics Laboratory		AF Systems Command
Frank J. Seller Research Laboratory		AF Systems Command
Human Resources Laboratory		AF Systems Command
Materials Laboratory		AF Systems Command
Rocket Propulsion Laboratory		AF Systems Command
Rome Air Development Center		AF Systems Command
* School of Aerospace Medicine	Aerospace Medical Division	AF Systems Command
Weapons Laboratory		AF Systems Command
6570 Aerospace Medical Research Laboratory	Aerospace Medical Division	AF Systems Command

* Laboratory portion not reported separately in this report. (For Armament Laboratory, see Armament Development and Test Center.)

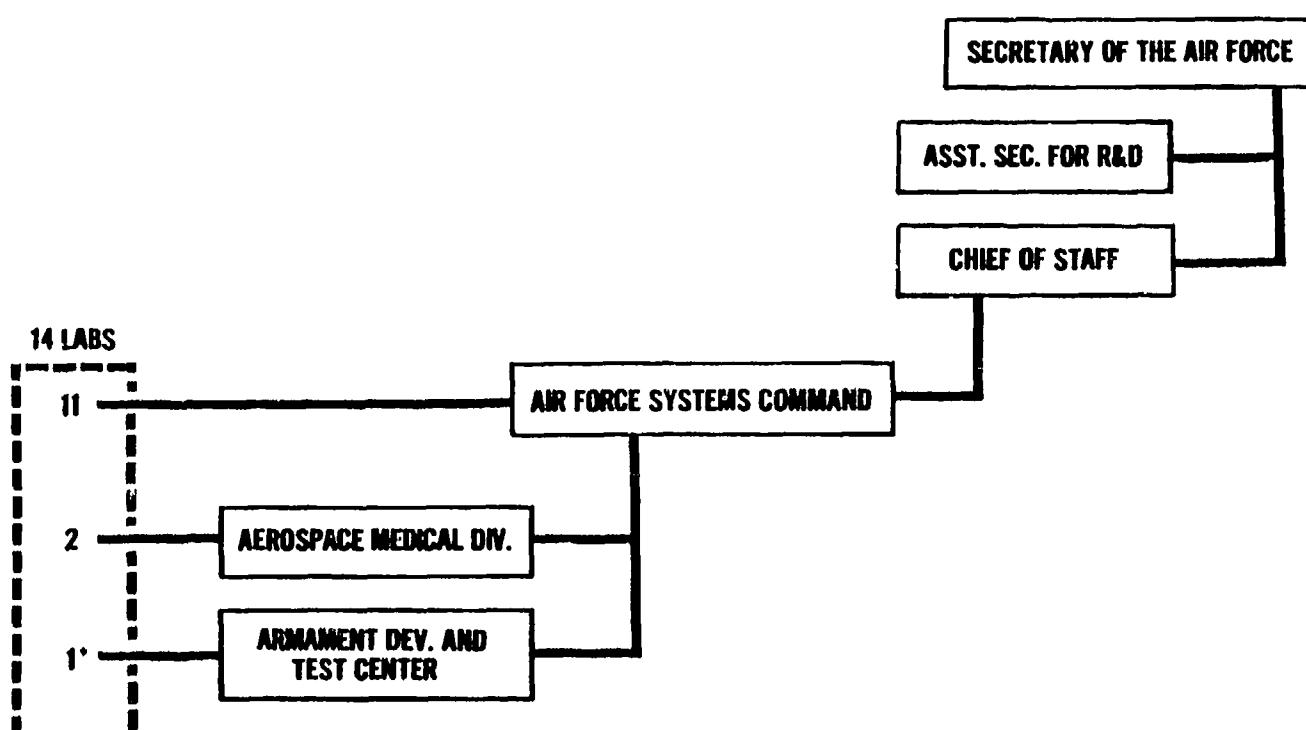
ARMY LABORATORIES COMMAND CHAIN



NAVY LABORATORIES COMMAND CHAIN



AIR FORCE LABORATORIES COMMAND CHAIN



*THE ARMAMENT LABORATORY IS NOT REPORTED
SEPARATELY IN THIS REPORT
(SEE: ARMAMENT DEVELOPMENT AND TEST CENTER)

xxx1

INSTALLATION AEROMEDICAL RESEARCH UNIT

FT. RUCKER, AL.

DA0008

C.O. COL ROBERT W. BAILEY

TECH. DIR. DR. MARK A. HOFFMANN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	1.756	2.125
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.639	0.608
TOTAL ANNUAL LAB	2.395	2.733
TOTAL INHOUSE	2.395	2.733
TOTAL INHOUSE RDT&E	1.756	2.125
ANNUAL OPERATING COST	0.846	0.965

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	50	13	41	9
CIVILIAN	28	1	4	24
TOTAL	78	14	45	33

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP EQUIP
8	32,933	5,940	7,470	46,343	0.379	3,000

...MISSION
CDT STUDIES ON CURRENT AND ANTICIPATED MED RESEARCH PROBLEMS RELEVANT TO
AAVN AND AHN OP. DEV TESTS & EVAL HEARING PROT DEVICES FOR ARMY, PROV
CONSULT SVC TO OTHER ELEMENTS OF ARMY, MAINT LN W ARMY, NAVY, AF, FED
AVN ADMIN AND OTHER FED & CIV INSTITUTIONS, DOM & FGN, W INT IN AVN.

...CURRENT IMPORTANT PROGRAMS
RESEARCH PSYCHOLOGY APPLIED TO MEDICALLY SIGNIFICANT PROBLEMS IN AAVN.
MED RESEARCH APPLIED TO PROBLEMS IN AAVN. RESEARCH OF VISUAL PROBLEMS MED
SIGNIFICANT TO AAVN. RESEARCH OF PSYCHOAUDIOLOGICAL PROBLEMS MED
SIGNIFICANT TO AAVN. RESEARCH OF BIOMECHANICAL PROBLEMS MED SIGNIFICANT
TO AAVN.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MAJOR EQUIPMENT INCLUDES SOUNDPROOF HEARING ROOM, ANECHOIC CHAMBER,
COLORTIMETER, ECG AND EEG MACHINES, BIOCHEMISTRY LAB, ELECTRONICS AND
ENGINEERING FABRICATION SHOP, PHOTOGRAPHY LAB AND AIN MONITORING
EQUIPMENT.

INSTALLATION AIR DEFENSE BOARD

EL PASO, TEXAS

DA0069

PRES. COL WILLIAM H. MILCOWNE, JR.

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	2.760	2.056
TOTAL PROCUREMENT	0.000	0.075
TOTAL C&G	0.000	0.000
TOTAL OTHER	3.199	3.467
TOTAL ANNUAL LAB	5.899	6.498
TOTAL INHOUSE	5.884	6.456
TOTAL INHOUSE RDT&E	2.745	2.914
ANNUAL OPERATING COST	0.552	0.552

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		NON- PROF
	AUTHORIZED STRENGTH	TOTAL PIOS	
MILITARY	328	1	48
CIVILIAN	120	0	107
TOTAL	448	1	155

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
26	36.550	36.666	76.945	150.141	81.000	12.971

...MISSION
PLAN, CONDUCT, & RPT ON DT 1, DT 11 & OTHER DEVELOPMENT TYPE TESTS OF
AD WIN SYS, FDS, ELECTRONIC COUNTERMEASURES & COUNTER-COUNTERMEASURES
OF EQUIP & DEVICES & TGT DEVICES. PARTICIPATE IN DT 11 ENGINEERING
PHASES I & DT 111 AS DIR. PROV ADVICE & GUIDANCE ON TEST & EVAL MATTERS.

...CURRENT IMPORTANT PROGRAMS
IMPROVED HAWK (TROPIC)
SERVICE TEST SAM-D
DT & EST AIR DEFENSE COMMAND CONTROL & COORDINATION SYSTEM AN/TSC-73
PRODUCT IMPROVEMENT TEST CHIEFMASTER AN/DAW-1
TROPIC TEST FAAR SYSTEM

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ASSURE MAXIMUM UTILIZATION OF RESOURCES IN ACCOMPLISHMENT OF MISSION.
PLAN CONDUCT RECORD & RPT RESULTS OF DEVELOPMENT TESTS & EVALUATIONS.
REVIEW & COMMENT ON TNG DEVICE REQUIREMENT DOCUMENTS, NEW EQUIPPING PKGS
& ASSIST IN REVIEW OF MIL SPECS. PROVIDE TECOM TEST REQUIREMENTS FOR CO-
ORDINATED TEST PROGRAM. PLAN DIRECT & CONTROL A PROGRAM IN TEST METHODOLOGY,
TEST INSTRUMENTATION & TEST FACILITIES NEEDED TO SPT CURRENT &
FUTURE REQUIREMENTS WITHIN ASSIGNED MISSION AREA. SPN FIELD RESEARCH,
STUDIES, TESTS, & OPERATIONS OF AMG, DA, OR DOD AGENCIES AS REQ ON DER.
EQUIPMENT-COMPUTER, TAC & INSTRUMENTATION RADAR, AUTOMATED DATA ACQUISI-
TION SYSTEMS, CINETHEDODILITES, PHOTO LAB & FILM READING EQUIPMENT. SITE
MONITOR FOR ELECTRONIC TEST OF EQUIPMENT & DONA AND RANGE FOR FIRING
FORWARD AREA WEAPONS, TARGET DEVICES AND TARGET DRONES.

INSTALLATION: AIR MOBILITY R&D LABORATORY

LOCATION: MOUNTAIN VIEW, CAL.

DA0030

DIR. MR. PAUL F. YAGG

DEPUTY DIR. COL. NORMAN L. RIBEN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACF + EST)
TOTAL R&D	37.931	34.165
TOTAL PROCUREMENT	0.000	0.000
TOTAL G&M	0.031	3.050
TOTAL OTHER	0.461	0.594
TOTAL ANNUAL LAB	38.423	34.809
TOTAL INHOUSE	12.049	13.937
TOTAL INHOUSE R&D	12.577	13.293
ANNUAL OPERATING COST	2.893	2.575

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TO AF PHYS	TOTAL PROF	MIN- PROF
MILITARY	40	2	13	21
CIVILIAN	598	26	253	365
TOTAL	638	28	266	372

SPACE AND PROPERTY

ACRIS	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER	TOTAL REAL PROP EQUIP
TUR	85.014 43.308 15.304	143.906 1.674 5.466

MISSION: MANAGES AND EXECUTES R&D OF AIRMOBILE SYSTEMS, THROUGH DEMONSTRATION OF TECHNOLOGY, PROVIDES TECHNICAL SUPPORT TO PROJECT/PRODUCT MANAGERS & SYSTEM DEVELOPERS AS REQUIRED. PROVIDES INDEPENDENT TECHNICAL RISK ASSESSMENT TO CG USAVSCOM AND HIGHER AUTHORITY.

CURRENT IMPORTANT PROGRAMS: RESEARCH IN FUNDAMENTAL ROTOR AERODYNAMICS, DYNAMICS & NOISE.

RESEARCH & DEVELOPMENT OF SMALL GAS TURBINES.

R&D TO IMPROVE RELIABILITY & MAINTAINABILITY OF AIRMOBILE SYSTEMS. RESEARCH COMPOSITES & MEASURE OPNL. FLT. LOADS TO IMPROVE STRUCTURES FOR A/C FVIV VI TECHNOLOGY & CRITERIA TO IMPROVE FLIGHT SAFETY & SURVIVABILITY.

FUNCTIONS/EQUIPMENT/CAPABILITIES: THREE DIRECTORATES AT HOFFETT FIELD, OH, CLEVELAND OH, HAMPTON VA COLLOCATED WITH NASA, PARTICIPATING IN RESEARCH OF AIRMOBILE SYSTEMS & DISCIPLINES, JOINTLY USING WIND TUNNELS, SIMULATORS & LABORATORY TEST FACILITIES, INCLUDING SHOPS, FLIGHT LINE & HANGER, STRUCTURE LAB, ENGINE TEST FACILITY, COMPUTATIONAL EQUIPMENT. FOURTH DIRECTORATE AT FORT EUSTIS, VA., FOCUSING ADVANCED APPLICATIONS WORK. MAJOR EQUIPMENT & FACILITIES: FILAMENT WINDING MACHINES, TENSILE TESTERS, VIBRATION TESTER, SMALL BALLISTIC RANGE, GUN/IMPACT LAB, ENVIRONMENT CHAMBER, ATOMIC ABSORPTION SPECTRUM, FILM/EMULSION STATION, NON-DESTRUCTIVE TESTING FACILITY, FLIGHT SAFETY LAB.

INSTALLATION AIRBORNE COMMUNICATIONS & ELECTRONICS BOARD FT. BRAGG, N.C.

DAD048

PRES. COL DONALD A. SEBERT ENGIN. ADV. MR. JOE N. TILLAND

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	2.100	1.329
TOTAL PROCUREMENT	0.005	0.000
TOTAL C&M	0.006	0.000
TOTAL OTHER	2.215	2.500
TOTAL ANNUAL LAB	4.320	3.829
 TOTAL INHOUSE	4.285	3.829
TOTAL INHOUSE RDT&E	2.065	1.329
ANNUAL OPERATING COST	0.108	0.081

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	209	0	52	157
CIVILIAN	60	1	8	52
TOTAL	269	1	60	209

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
180	0.000	50.979	63.485	114.364	1.151	3.076

MISSION PLAN, CONDUCT, AND REPORT ON EXPANDED SERVICE TESTS AND CHECK TESTS OF A AIRBORNE, COMMUNICATIONS AND ELECTRONICS EQUIPMENT AND SYSTEMS. THE COMMUNICATIONS AND ELECTRONICS-TYPE EQUIP ARE USED AT DIV LEVEL OR BELOW. THE AIRBORNE TESTS PERTAIN TO EQUIP AND SYS WHICH SPT AIRDROP AND TRANSPORT

RECENTLY IMPORTANT PROGRAMS

TEST OF CODE MATRIX BLOCK READER TRANSLATOR, BR-22
DT ET OF AN/PAS-7, VIEWER, INFRARED
DT ET OF MILITARY FREE-FALL PARACHUTE SYSTEM
TEST OF TWO-STAGE AERIAL DELIVERY SYSTEM, HALO CDS
TEST OF PLATINUM EARLY WARNING DEVICE

FUNCTIONS/EQUIPMENT/CAPABILITIES
FACILITIES INCLUDE HANGER BLD, COMMUNICATIONS-ELECTRONICS FACILITY, CRYPTOGRAPHIC TEST FACILITY, WORKSHOP AND A SENSOR TEST FACILITY. MAJOR EQUIPMENT INCLUDES 2 T28 AIRCRAFT, 1 UH-1M HELICOPTER, 60000-POUND LOADER, 5-TON WRECKER, 20-TON MOBILE CHANE, 3 SEMI-T HAILEFS, SEVERAL STANDARD VEHICLES, VARIOUS TYPES OF STANDARD PARACHUTES, STANDARD PLATFORMS, NINE GASOLINE DRIVEN GENERATORS, BALLASTABLE AIRBORNE VEHICLES WITH REMOVABLE WEIGHT INCREMENTS, THREE ANEMOMETERS, VARIOUS THERMOMETERS, STOPWATCHES, ELEVEN TACTICAL RADIO SETS, TWO RADAR RECEIVERS, SIX TELETYPEWRITER SETS, TWENTY TWO SIGNAL GENERATORS, TWO LEVEL METERS, 1 SOUND AND VIBRATION ANALYZER, 1 PHOTO ANALYZER, 5 USE LOGRAPHIS, CLOSED CIRCUIT VIDEO EQUIPMENT, STRAIN GAUGES, ACCELEROMETERS, AND GALVANOMETERS.

INSTALLATION - ARCTIC TEST CENTER

FT. GREELY, AK.

DA0064

C.D. CEC DAVID J. SCHUMACHER

TECH. DIR. MR. JERRELL L. SANNERS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT & EST)
TOTAL ROTGE	2.929	2.902
TOTAL PROCUREMENT	0.008	0.000
TOTAL O&P	0.037	0.010
TOTAL OTHER	3.372	1.370
TOTAL ANNUAL LAB	6.346	6.282
TOTAL INHOUSE	6.283	6.237
TOTAL INHOUSE ROTGE	2.066	2.057
ANNUAL OPERATING COST	1.371	1.307

PERSONNEL	PERSONNEL DATA (END OF FY 1973)	
	AUTHORIZED STRENGTH	TOTAL PIOS
MILITARY	299	1
CIVILIAN	23	0
TOTAL	322	1

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROP
665854	0.000	40.558	236.175	277.133	12.573	5.597

...MISSION
PLAN COND & RPT ON ENVIRON PHASES OF ENG TESTS, SVC TESTS, CR TESTS, INITIAL PHOT TEST, MIL POT TEST & APPROP PRE-PROV TEST. TO PROVIDE ADV TO PROP AGENCIES AND MAT DEVEL. COND OTHER TEST GEVAL AS DIR BY CG, TECOM. PHOV SUPP TO CGO, AND OTHER DA SUB-EL, AS DIR, FOR SVCS NOT SHOWN.

...CURRENT IMPORTANT PROGRAMS
TRAIL TRUCK TRMS
NIGHT VISION GOGGLES TRMS
SKIS WITH BENDING TRMS
NIGHT VISION SIGHT DRAGON/TOM
MEAL INDIVIDUAL TRMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
THE ATC FAC WITH FEW EXCPT CAN BE USED FOR MULT APPL'S IN ACCMP TESTS ALLOWING THE CEN TO ACC A NO OR VAR OF TEST ITEMS AT ANY ONE TIME. ALL FIRING RGS ARE ORIENTED TO FT GREELY 500,000 ACRE IMPACT AREA WEST OF DELTA R. THIS AREA PROVIDES A MAX UNDERS RG OF 50,000 METERS. A MAJORITY IN THIS AREA IS WITHIN RESTR AIRSPACE ALLOWING UNRESTR FIRING TO A MAX HGT OF 5,000 FT. COORD WITH LOCAL FAA FT SVC CAN EFFECT UNLIMITED CRUINATE CAP OVER ALL FIRING RGS. 1ST, 2D OR 3RD ORDER SURVEY MONUMENTS EXIST NEAR ALL THE CEN FIRING RGS & TEST SITES. A GOOD SECONDARY RD SYS CONNECTS ALL RGS TO THE ALASKA & RICHARDSON HWYS. CLASS A TEL CAP EXISTS WITH PRIN RGS & A NON-TACTICAL RADIO NET PRIN ALT COMM WITH ALL PARTS OF THE RGS. ADEQUATE MAINT FAC FOR OSCOS SUPP THE MOST ITEMS, TO INCL ACFT, ARE CRG TO THE CEN. THE CEN HAS CMPTR FAC ADEQUATE FOR ANY PONT.NET FAC ARE AVAIL.

INSTALLATION ARMOR AND ENGINEER BOARD

FT. KNOX, KENTUCKY

DA0000

PRES. GEN. JOHN P. BERNES

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 ACTUAL	1974 ACT + EST
TOTAL R&D	2.248	2.141
TOTAL PROCUREMENT	0.222	0.135
TOTAL O&M	0.005	0.015
TOTAL OTHER	5.056	6.404
TOTAL ANIMAL LAB	7.531	8.655
TOTAL INHOUSE	7.531	8.655
TOTAL INHOUSE R&D	2.248	2.141
ANIMAL OPERATING COST	0.322	0.369

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PNS	TOTAL PROF	NON- PROF
MILITARY	389	1	162	227
CIVILIAN	98	0	18	80
TOTAL	487	1	180	307

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROP
6900	0,000	63,348	192,231	255,781	1,426	2,017

...MISSION
PLAN, CONDUCT & REPORT ON DT 1, DT 11 & OTHER TYPE TESTS OF ARMOR & ENGR EQUIP, AUTHO SYS & MATE ATOMIC DEMO & GEN EQUIP. PARTICIPATE IN DT 11, DT 111 & SPEC STUDIES OF CCE AS DIRECTED. PROVIDE ADVICE & GUIDANCE TO MATERIAL DEVELOPERS & OTHER SERVICES. CONDUCT OTHER TESTS AS DIRECTED.

...CURRENT IMPORTANT PROGRAMS

SPECIAL STUDY, COMMERCIAL CONSTRUCTION EQUIPMENT PROGRAM
DEVELOPMENT TEST 11 (SVC PHM TANK, CBT, FULL-TRACKED, 105MM GUN, M60A3)
DEVELOPMENT TEST 11 (SVC PHM ARMORED RECONNAISSANCE SCOUT VEHICLE, XM800)
SPECIAL STUDY, METALLURGY INVESTIGATION OF MINES
DEVELOPMENT TEST 11 (SVC PHM PROJECTILES, 155MM, HE, XM692 AND XM731)

...FUNCTIONS/EQUIPMENT/CAPABILITIES

USAARFNUC MAJOR EQUIP: SIMULATING INSTRUMENTATION SYSTEMS (BEAM & CIVIL HEAD
CRANE-40 TONNE STILL & MOTION PICTURE PHOTO EQUIP: STATIONARY ELEVATED
CAMERA PLATFORM FOR HEIGHTS UP TO 40 FT ABOVE ADJACENT GRADE; VIDEO TAPE
RECORDERS; GENERATOR; LOAD RAMPS; MOBILE DYNAMOMETER, WHICH MEASURES DRAW
BAR PULL FROM 0 TO 100 TONS; TACTICAL MILITARY VEHICLES; COMBAT VEHICLES;
ENGR CONSTR EQUIP: MACHINE SHOP EQUIPMENT & SHOP MAINTENANCE SETS.
USAARFNUC FACILITIES CONSIST OF 6900 ACRES FOR TESTING; MCFARLAND-OLIVER
RANGE (1160 ACRES) WITH FIRING CAPABILITY UP TO 2000 METERS; ADDITIONAL
RANGE, WITH FIRING CAPABILITY UP TO 10,000 METERS; 1000 SQ FT-
STATIONARY STATION; 72,988 SQ FT-BARRACK SPACES; 71,108 SQ FT-
OFFICE SPACES; 69,888 SQ FT-SHOP AREA; 48,106 SQ FT-STORAGE SPACE AND
85,750 SQ FEET OF MOTOR PARK SPACE.

INSTALLATION ARMY MATERIAL SYSTEMS ANALYSIS AGENCY ABERDEEN PROV GR, MD

DA0057

DIR. DR. JOSEPH SPERRAZZA C.O. AND DEP. DIR. COL. W.D. GRANT

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	11.074	8.924
TOTAL PROCUREMENT	0.000	0.000
TOTAL G&M	1.832	1.485
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	12.906	10.409
TOTAL INHOUSE	8.466	6.609
TOTAL INHOUSE R&D	6.634	5.124
ANNUAL OPERATING COST	1.629	1.630

PERSONNEL	PERSONNEL DATA (END OF FY 1973)			
	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PROF	NON- PROF
MILITARY	18	0	16	2
CIVILIAN	322	8	235	87
TOTAL	340	8	251	89

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			TOTAL	REAL PROP	EQUIP
LAB	ADMIN	OTHER				
4	8.511	72.015	3.790	84.316	1.773	0.425

...MISSION
TO PROVIDE THE CENTRAL TECHNICAL CAPABILITY OF AMC FOR THE CONDUCT OF MAJOR SYSTEMS ANALYSES OF PROPOSED & EXISTING ARMY WEAPONS/MATERIEL SYSTEMS PROGRAMS & SUPPORT THROUGHOUT THEIR LIFE CYCLE TO SERVE AS THE AMC FIELD AGENCY TO ADMINISTER THE JTCC/ME PROGRAM

...CURRENT IMPORTANT PROGRAMS

XMI TANK
SAM D
UTIAS
AAH
MICV

...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCT AMC/WPN SYS ANALYSIS AND EVAL OF MATERIAL CONCEPTS AND PROPOSALS
DEVELOPS, IMPROVES, AND DISSEMINATES METHODOLOGY AND TECHNIQUES FOR-
CONDUCT OF SYS ANALYSIS, ANAL OF PERFORMANCE, SCHEDULE AND COST RISKS,
DESIGN, CONDUCT AND EVAL OF TESTS. EVAL LIFE CYCLE REQ OF MATERIAL SYS.
CONDUCTS TACTICAL, OPERATIONAL ANALYSIS OF WPN & MATERIAL SYSTEMS-
RELIABILITY, AVAILABILITY AND MAINTAINABILITY CENTER FOR ARMY SYS. TECH
DIF OF AMC SURVEILLANCE PROGRAM FOR STOCKS OF ARMY MISSILES, NUCLEAR,
AND NONNUCLEAR AMMUNITION. PROVIDE TECH COORD, DATA, AND ANALYSIS FOR
DETERMINATION OF JOINT SERVICES MUNITIONS EFFECTIVENESS MODELS AND
MANUALS.

INSTALLATION ATMOSPHERIC SCIENCES LABORATORY

WHITE SANDS MR, N.M.

DA0061

C.G.C. AND DIR. COL. WILLIAM C. PETTY DEPUTY DIR. MR. MARVIN DIAMOND

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1976 (ACT + EST)
TOTAL RDT&E	9.820	8.856
TOTAL PROCUREMENT	0.180	0.011
TOTAL O&M	0.000	0.000
TOTAL OTHER	3.031	2.837
TOTAL ANNUAL LAB	13.031	11.704
TOTAL IN-HOUSE	11.800	9.596
TOTAL IN-HOUSE RDT&E	8.681	6.748
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PIDS	TOTAL PROF	NON- PROF
MILITARY	467	1	43	424
CIVILIAN	281	11	122	159
TOTAL	748	12	165	583

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROF	EQUIP
45	0.056	0.029	0.033	0.114	48.000	2.500

...MISSION

RESEARCH IN ATMOSPHERIC SCIENCES, DEVELOPMENT OF METEOROLOGICAL TECHNIQUES AND EQUIPMENT FOR FIELD ARMY. FURNISH METEOROLOGICAL SERVICES TO ARMY RDT&E ACTIVITIES. PROVIDE ADMIN AND LOGISTICAL SUPPORT TO CINCPAC ECOM ELEMENTS AT WHITE SANDS MISSILE RANGE, NEW MEXICO.

...CURRENT IMPORTANT PROGRAMS

METEOROLOGICAL EQUIPMENT
AUTOMATIC METEOROLOGICAL SYSTEM
REMOTE ATMOSPHERIC SENSING
METEOROLOGICAL SATELLITES
METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES

...FUNCTIONS/EQUIPMENT/CAPABILITIES

METEOROLOGICAL RESEARCH FACILITY AND CAPABILITY
WIND TUNNEL FACILITY, LIN SPEED
ATMOSPHERIC PHYSICS RESEARCH FACILITY AND CAPABILITY
UPPER ATMOSPHERE RESEARCH AND SOUNDING ROCKET FACILITY AND CAPABILITY
ION MASS SPECTROMETER SYSTEM
METEOROLOGICAL SOUNDING ROCKET FACILITIES-N.M., UTAH, ALASKA, CANAL ZONE
REMOTE ATMOSPHERIC SENSING FIELD RESEARCH FACILITY
ATMOSPHERIC SPECTROSCOPY-LASER PROPAGATION FACILITY
METEOROLOGICAL RDT&E SUPPORT FACILITIES-ALASKA TO CANAL ZONE
METEOROLOGICAL INSTRUMENTATION TEST, MAINTENANCE, CALIBRATION FACILITY
FACILITY FOR SONIC OBSERVATION OF TRAJECTORY AND IMPACT OF MISSILES
COLOR DENSITOMETER FOR ANALYSIS OF METEOROLOGICAL SATELLITE DATA

INSTALLATION AVIATION SYSTEMS TEST ACTIVITY

EDWARDS AFB, CAL.

DA0031

C.G.O. COL DEAN E. WRIGHT

TECH. DIR. MR. JAMES S. HAYDEN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	4.395	3.208
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.640	0.450
TOTAL ANNUAL LAB	5.235	4.658
TOTAL INHOUSE	5.235	4.048
TOTAL INHOUSE RDT&E	4.395	3.208
ANNUAL OPERATING COST	1.060	1.107

PERSONNEL	PERSONNEL DATA (END OF FY 1973)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	60	0	37	23
CIVILIAN	104	0	27	77
TOTAL	164	0	64	100

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
19	4.280	32.830	58.490	135.600	3.527	4.165

...MISSION
PLAN AND CONDUCT AIRWORTHINESS QUALIFICATION FLIGHT TESTS OF AIR
VEHICLES DEVELOPED AND/OR PURCHASED. AIRWORTHINESS EVALUATIONS OF VEHICLES
PROPOSED FOR ARMY APPLICATION INCORPORATE ADVANCED CONCEPTS. PRODUCE DATA
ON AIRCRAFT PERFORMANCE, STABILITY AND CONTROL. CONDUCT TEST PILOT COURSE

...CURRENT IMPORTANT PROGRAMS
HELICOPTER ARTIFICIAL ICING TESTS UH-1 AH-1 OH-6 CH-47 CH-54
INSTRUMENT PANEL VIBRATION SURVEY AH-1
212 TAIL ROTOR AH-1
IFR QUALIFICATION OH-6
IFR EVALUATION AH-1

...FUNCTIONS/EQUIPMENT/CAPABILITIES
1047 2142 LOVIC LT208 2F-51D 2001H 1CH47C AND 9 TEST AIRCRAFT
1FMH COMPUTER WITH TELEMETRY
3AIRBORNE DATA ACQUISITION SYSTEMS
2 REMOTE GROUND STATIONS WITH COMPUTER AND TELEMETRY CAPABILITY
6 MAGNETIC TAPE ELECTRIC TYPEWRITERS FOR TEST REPORT PREPARATION
1MAGNETIC TAPE SELECTRIC COMPUTER SYSTEM
1XEROX 7200 COPY MACHINE
2HELM INFR MODEL 820 AND MODEL 860
3AIRCRAFT FLIGHT ANALYZERS
12MILLIENIUM CAMERA VARIOUS SIZES
2CANON 16MM MOTION PICTURE CAMERAS
LIMITED INSTRUMENT CALIBRATION CAPABILITY

INSTALLATION AVIATION TEST BOARD

FT. RUCKER, AL.

PA0052

PRES. COL. ROBERT S. KELLAR

TECH. ADV. DR. JAMES S. KISHI

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	6.300	6.491
TOTAL PROCUREMENT	0.296	0.180
TOTAL O&M	0.407	0.524
TOTAL OTHER	2.551	2.021
TOTAL ANNUAL LAB	9.554	9.216
TOTAL INKHOUSE	7.025	6.665
TOTAL INKHOUSE RDT&E	3.771	3.940
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PROF	NON- PROF
MILITARY	214	0	60	154
CIVILIAN	134	1	10	124
TOTAL	348	1	70	278

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	L&G	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1189	3.018	19.150	206.668	226.876	4.401	13.629

...MISSION

PLAN, CONDUCT & REPORT ON DT I, DT II, DT III, SVC PHASE & OTHER DEV. TYPE TESTS OF AC, AC COMP., SUB-SYS & ANCILLARY EQUIP. PARTICIPATE IN DT II, ENG. PHASE, & DT III TESTS AS DIR. ADVISE PROONENT AGENCIES DURING THE DEVELOPMENT OF AC SYSTEMS.

...CURRENT IMPORTANT PROGRAMS

IR PROJECTS
ICAS ST
HOT BRICK PROGRAMS
AIDAPS PROJECT
XMS6 MINE DISPENSER

...FUNCTIONS/EQUIPMENT/CAPABILITIES

HAVE REQUIRED FACILITIES & CAPABILITIES TO PERFORM STATED MSA, TO REVW & COMMENT ON QMOM'S, MCL NEEDS, RUCIS, MAINT PACKAGES & TO ASSIST IN REVIEWING MIL SPECS. ABILITY TO EVALUATE & RECOMMEND ON SAFETY & SUITABILITY OF MILS FOR ARMY USE. TO SUPPORT FIELD RESEARCH, STUDIES, TESTS & OPERATIONS OF CONTROL PROGRAMS IN METHODOLOGY TO ASSURE PROPER TESTING & REPORTING IN CURRENT & FUTURE YRS. ABLE TO ASSIST IN PREPARING TRAINING LITERATURE & SELECTION OF TRAINING AIDS, TO RECOMMEND TO CG TECOM THROUGH ESTABLISHED PROCEDURES, R&D PROJECTS DESIGNATED TO IMPROVE TECOM TEST & EVALUATION.

INSTALLATION AVIONICS LABORATORY

EATONTOWN, N.J.

DA0064

C.O. LTC LEE HAN

TECH. DIR. MR. THEODORE SUFTA

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	12.737	13.970
TOTAL PURCHASE	4.553	5.694
TOTAL DCM	2.199	0.095
TOTAL OTHER	0.254	0.027
TOTAL ANNUAL LAB	19.143	19.596
TOTAL INHOUSE	15.457	14.662
TOTAL INHOUSE RDT&E	10.464	9.519
ANNUAL OPERATING COST	4.553	5.302

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL	NON-FR
	AUTHORIZED STRENGTH	TOTAL PHOS		
MILITARY	13	0	18	5
CIVILIAN	248	5	151	97
TOTAL	261	5	169	102

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LND	ADMIN	OTHER	TOTAL	REAL PROP
9	43,500	7,500	1,706	52,706	2,665	10,740

MISSION
APPLIED R&D, DEVEL AND ENGRG IN ARMY AVIATION ELECTRONICS INCLUDING
NAVIGATION, LANDING, COMMUNICATIONS, ENVIRONMENT SENSING, CONTROL THEORY
AIRCRAFT ANTENNAS, INSTRUMENTATION, GROUND AND AIRBORNE SYSTEMS
INSTALLATION AND TEST SYSTEMS ENGRG

CURRENT IMPORTANT PROGRAMS
LOW LEVEL NIGHT OPERATIONS FOR ARMY AIRCRAFT
ADVANCED AVIONICS SYSTEMS ANALYSIS
ABSOLUTE ALTIMETER
LANDING INMLS SPT, MADICS, (TECH SPT)
AN/ARC-9R HF, SSB ARM RADAR (IN V COMM)

FUNCTIONS/EQUIPMENT/CAPABILITIES
TACTICAL AVIONICS SYSTEMS SIMULATOR
AIRCRAFT ANTENNA TEST FACILITY
FIXED BASE COCKPIT SIMULATOR UH-1
INSTRUMENTED C-47 AIRCRAFT FOR TESTING NAVIGATION SYSTEMS
GYRO TEST FACILITY
ROVING EARTH SIMULATOR FOR DOPPLER NAVIGATOR TESTING
ELECTROMAGNETIC RADIATION TEST FACILITY

INSTALLATION BALLISTICS RESEARCH LABORATORIES

ANTRIM IN PHOV GR. NO.

040022

C.C. GEN RUDOLPH A. AKELSON

DIR. MR. ROBERT J. EICHENBREGER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (FACTUAL)	1974 (ACT + EST)
TOTAL R&D	38.358	31.695
TOTAL PROCUREMENT	0.174	0.000
TOTAL CGH	0.157	0.120
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	38.689	31.815
TOTAL INKHOUSE	24.215	23.615
TOTAL INKHOUSE R&D	23.884	23.495
ANNUAL OPERATING COST	8.240	8.273

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PMS	TOTAL PROF	NON- PROF
MILITARY	66	9	61	5
CIVILIAN	826	89	417	409
TOTAL	892	97	478	416

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
5300	279.387	113.991	259.300	652.670	14.484	34.800

...MISSION
CONDUCT R&D AND EXPL. DVEL IN SCIENCES/TECHNOLOGIES NECESSARY FOR
CONCEIVING DESIGNING DEVELOPING AND EVALUATING WEAPONS SYSTEMS
PURSUE ORIENTED FUND RESEARCH IN PHYSICS CHEM MATH ENGR AND BIOPHYSICS
INVESTIGATE PERTINENT BRANCHES OF MILITARY SCIENCE AND TECHNOLOGIES

...CURRENT IMPORTANT PROGRAMS
MATHEMATICAL MODELS OF GUN PROPELLANT SYSTEMS
CONVENTIONAL WARHEAD EFFECTS
WARILOAD DYNAMICS FRAGMENTATION-EXPLOSIVE METAL INTERACTION
REFINED FLIGHT DYNAMICS OF PROJECTILES AND MISSILES
VULNERABILITY GROUND AND AIRBORNE TARGETS-OFFENSIVE/DEFENSIVE MEASURES

...FUNCTIONS/EQUIPMENT/CAPABILITIES
SUPERSONIC AND HYPERSONIC WIND TUNNELS/TRANSOMIC RANGE
EXPLOSIVE BLAST CHAMBERS AND HIGH ALTITUDE BLAST SPHERE
SHOCK TUBES-SIMULATION OF NUCLEAR BLAST/CHEMICAL REACTION RATE
PULSE RADIATION FACILITY-TANDEM VAN DE GRAFF ACCELERATOR
EXPLOSIVE FIELD TEST FACILITIES
HIGH SPEED MOTION PHOTOGRAPHY SCHLIEREN INTERFEROMETRY
ELECTRON MICROSCOPE-ELECTRON SPIN RESONANCE-NUCLEAR MAGNETIC RESEARCH
ELECTROMAGNETIC RADIATION RANGES
ANALOG COMPUTER FOR SIMULATION OF DYNAMICS OF GUN AND RIFLE
PROPULSION AND COMBUSTION CHAMBERS
LASERS FOR PLASMA PROPAGATION AND SIGNATURES
AFTER GLOW REACTOR CHAMBER-UPPER ATMOSPHERE CHEM REACTION RATE

INSTALLATION: BREVET WEAPONS LABORATORY

BATFORDVILLE, N.Y.

0400040

C.M.C. DIR: RICHARD H. SAWYER

TECH. DIR.: DR. ROBERT E. WEIGEL

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		1974
	(ACTUAL)	(ACT. + EST.)	
TOTAL R&D	10.706	14.448	
TOTAL PROCUREMENT	3.203	3.142	
TOTAL O&M	1.331	0.866	
TOTAL OTHER	0.418	0.627	
TOTAL ANNUAL LAB	15.466	19.083	
PROG. INHOUSE	13.208	12.871	
TOTAL INHOUSE R&D	8.330	8.236	
ANNUAL OPERATING COST	3.503	3.774	

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		COST (MILLION \$)	
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	7	0	2	5
CIVILIAN	390	43	190	200
TOTAL	397	43	192	205

ACRES	SPACE AND PROPERTY			COST (MILLION \$)			
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
4	167.663	24.600	7.489	149.552	2.365	4.164	

MISSION
 DESIGN & DEV OF ARTY, TANK, AIR DEFENSE & SECONDARY CANNON ABOVE 20MM
 SYS Mgmt, DESIGN & DEV OF MORTARS & RECOILLESS RIFLE SYSTEMS TOWS
 ARMED LEAD LAB FOR BARREL CANNON SUBSIDIARY PAYS & ENGRNG SCIENCES TECH.
 BASED & APPL. RESEARCH & MFG TECH TO SUPT THE DEVELOPMENT MISSION

IMPORTANT PROGRAMS
 DESIGN & DEV OF 105MM M110 XM224 FOR LWCP
 DESIGN & DEV OF 105MM M110 XM205 FOR 105MM TOWED HOW S.R. XM204
 DESIGN & DEV OF CANNON 155MM M110 XM199 FOR 155MM M110 XM198 DA F108
 FATIGUE CORRELATION OF RELATIONSHIP BETWEEN LAB CYCLING & FIRING
 INTRA HIGH PRESSURE RESEARCH FOR SYNTHESIS OF NEW MATERIALS PPLICATIONS

FUNCTIONS/EQUIPMENT/CAPABILITIES
 UNIQUE FACILITIES & CAPABILITIES INCLUDE HIGH PRESSURE METALLURGY WITH
 10 K-DAY FLUID EXTRUSION PRESS, ULTRA HI-PRESSURE SYS. UP TO 600 K-PAS
 CAPACITY FOR MEAS. OF LOAD, TEMP., RESIST., CAPACITANCE, ISOTOPE COUNTING
 DYNAMIC TEST OF BREACH COMPONENTS & TUBE SECT. -- FULL SIZE -- BY PRESSURE/
 PULSE, SIMULATING FIRING CYCLES, CLOSED LOAD CYCLES, SYS. TO 100,000 LBS.,
 EXP. STRESS ANAL. THRU 26 DIMENSIONAL PHOTODELASTICITY, ELECTRINE POSITION
 IN HI-TEMP ALLOYS, HI-TEMP VAC. TENSILE TESTING SYS. TO 3200C, SURFACE
 AREA ANALYZER FOR POWDERS, HI-PERF. SHOCK TEST -- 1200LBS. TO 1500G FOR GUN
 COMPONENTS, PROGRAMMABLE FILAMENT WINDING MCH., PLASMA SPRAY FACILITY FOR
 COMPOSITE MTRLS., TIME OF FLIGHT MASS SPECTROMETER, AUTOMATED X-RAY ANAL.
 DATA ACQUISITION SYS., ELECTRON MICROSCOPE ANALYZER - B-U IN PPM - IMM
 360-44 COMPUTER, ELECTRON MICROSCOPE PV-2.3 ANGST. RESOLUTION & 25000X MAG

INSTALLATION COLD REGIONS REE LABORATORIES

HANOVER, N.H.

DA0026

C.O. AND DIR. COL RUMERT L. CRUSBY TECH. DIR. DR. D.R. FREITAG

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		1974	
	FACTUAL	(ACT + EST)	FACTUAL	(ACT + EST)
TOTAL RDT&E	4.765		4.696	
TOTAL PROCUREMENT	0.000		0.000	
TOTAL OEM	0.578		0.216	
TOTAL OTHER	2.843		3.443	
TOTAL ANNUAL LAB	6.190		8.355	
TOTAL INHOUSE	6.719		7.374	
TOTAL INHOUSE RDT&E	3.816		4.224	
ANNUAL OPERATING COST	1.800		1.980	

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL		NON- PROF
		PROFS	NON- PROF	
MILITARY	41	1	36	5
CIVILIAN	242	24	84	158
TOTAL	283	29	120	163

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PRCP	EQUIP
24	12.300	3.760	109.054	125.114	3.979	4.039

...MISSION

AS THE ARMY LABORATORY FOR SCIENCE AND TECHNOLOGY IN COLD REGIONS, USACRREL CONDUCTS AND COORDINATES RESEARCH AND SURVEILLANCE OF TECHNOLOGY APPLICABLE TO THE ARMY'S NEEDS IN THOSE GEOGRAPHIC AREAS OF THE WORLD WHERE COLD PRESENTS A SEVERE PROBLEM AT LEAST ONE YEAR IN TEN.

...CURRENT IMPORTANT PROGRAMS

ENGINEERING IN COLD ENVIRONMENTS
ENVIRONMENTAL QUALITY FOR COLD REGIONS - MILITARY CONSTRUCTION
RESEARCH IN MILITARY ENGINEERING AND CONSTRUCTION
COLD REGIONS RESEARCH
MOBILITY AND ENVIRONMENTAL RESEARCH

...FUNCTIONS/EQUIPMENT/CAPABILITIES

THE MAIN LABORATORY AT USACRREL CONTAINS 24 COLD LABS WHICH CAN BE OPERATED TO -50 F. SPECIAL TESTING APPARATUS FOR FROZEN MATERIALS, A CHEMICAL LAB, AN ELECTRON MICROSCOPE LAB, A ROCK MECHANICS LAB, A SOILS PROCESSING LAB, AND A SPRAY IRRIGATION TEST FACILITY. FIELD WORK SUPPORT IN ALASKA IS PROVIDED BY A FIELD STATION AT FAIRBANKS. REPRESENTATIVE AREAS OF COMPETENCE AMONG USACRREL'S SCIENTISTS AND ENGINEERS INCLUDE BIOLOGY, BIOCHEMISTRY, METEOROLOGY, CHEMICAL ENGINEERING, CIVIL ENGINEERING, MARINE ENGINEERING, MECHANICAL ENGINEERING, GEOLGY, SANITARY ENGINEERING, ELECTRONICS, ELECTRICAL ENGINEERING, PHYSICS, CHEMISTRY, HYDROLOGY, AND GEOPHYSICS.

INSTALLATION COMBAT SURVEILLANCE & TOT ACQUISITION LABS FT. MONMOUTH, N.J.

DA0067

DEPUTY DIR. MR. HERBERT GOLDWAG

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 FACTUAL	1974 FACT 1 EST
TOTAL ROTC	40.738	30.560
TOTAL PROCUREMENT	0.000	0.000
TOTAL CCM	0.000	0.000
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	40.738	30.560
TOTAL INHOUSE	14.200	14.635
TOTAL INHOUSE ROTC	14.200	14.635
ANNUAL OPERATING COST	4.100	4.235

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		NON- PROF
	AUTHORIZED STRENGTH	TOTAL PNS	
MILITARY	23	0	33
CIVILIAN	320	13	201
TOTAL	343	13	234

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP EQUIP
71	114.351	5.075	11.571	130.997	2.410	5.000

...MISSION
DEVELOP EQUIPMENTS FOR COMBAT SURVEILLANCE, TARGET ACQUISITION, IDENTIFICATION-FRIEND-OR-FOE, RADAR/OPTICAL SURVEY. APPLY FOLLOWING TECHNIQUES, RADAR, IR, LIGHT, SOUND, SEISMICS, NUCLEONICS, ELECTRO-OPTICS, PHOTOGRAPHY, GEOPHYSICS, IMAGE INTERPRETATION, DATA TRANSFER AND DRONES

...CURRENT IMPORTANT PROGRAMS
ADV DEV AND SUPPORTING TECHNOLOGY FOR ARTILLERY LOCATING RADAR AN/FPS-0
ENGR DEV OF MOBILE, HELI-LIFTED, MORTAR-LOCATING RADAR AN/FPS-36
ENGR DEV OF MOVING-TARGET LOCATING RADAR SET AN/FPS-58
ENGR DEV OF LASER DESIGNATOR TRACKER SYSTEM (LTDTS)
REMOTELY MONITORED BATTLEFIELD SENSOR SYSTEM (REMBASS)

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PHOTO PROCESSING, OPTICAL TEST, LENS RESOLUTION TEST PATTERN FACILITIES (FACT), INCL DARK ROOMS, CHEM LABS. RADAR TECHNIQUES DEV FAC (FACT) MICROWAVE DARK ROOM, ANTENNA PATTERN & TEST RANGE, 65FT HIGH RADAR TEST PLATFORM, FIVE OUTDOOR & ONE INDOOR RANGES INSTRUMENTED FROM 30 MHz TO 70 GHz PER SEC. MOBILE SPECTRAL AND TIME DISTRIBUTION MEASUREMENT FAC (FACT) FROM 2900 A TO INTERMEDIATE IR. OPTICS FACILITY FOR MEASURING DETECTIVITY OF ELEMENTS, OUTPUT OF SOURCES, TRANSMISSION CHARACTERISTICS, LASER TEST & MEASUREMENT FAC FOR LASER SYSTEM COMPONENTS. RADAR INSTRUMENTATION FAC CAPABLE OF TRACKING X-BAND RADAR AND COLLECTING AND RECORDING POSITION, VELOCITY, AND SIGNAL STRENGTH. HAS S-BAND SHIRT-RANGE SEARCH CAPABILITY

INSTALLATION COMMUNICATIONS ADP LABORATORY

FT. MONMOUTH, N.J.

IA0060

C.O. AND DIR. COL. J. MITCHELL

DEP. DIR. MR. R. KIEHS

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	21.600	30.292
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.330	0.170
TOTAL ANNUAL LAB	21.930	30.462
TOTAL INHOUSE	11.230	18.812
TOTAL INHOUSE RDT&E	10.900	18.642
ANNUAL OPERATING COST	6.587	7.400

PERSONNEL	PERSONNEL DATA (END OF FY 1973)	
	AUTHORIZED STRENGTH	TOTAL PHDS
MILITARY	12	1
CIVILIAN	394	18
TOTAL	406	19

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP EQUIP
0	33.437	42.524	5.018	80.970	0.000	11.800

MISSION
TO PERFORM R&D ACTIVITIES RELATED COMMUNICATIONS AND ADP EQUIPMENTS AND SYSTEMS WHICH INCLUDE THE FIELDS OF RADIO TELEPHONIC TELEGRAPHIC AND FACSIMILE COMMUNICATIONS ADP TECHNIQUES AND DATA STORAGE COMMUNICATION SECURITY ELECTROMAGNETIC COMPATIBILITY AND COMMUNICATING PROCESSES

CURRENT IMPORTANT PROGRAMS
TACTICAL RADIO COMMUNICATIONS SYSTEM
RADIO SET ANPRC 70
ATAC TSQ 65 TTC 38 TTC 39 ANUOC 7273747976 TD1069 TD1069
ARVADS TACFIRE TOS
ULTRA RELIABLE RADIO

FUNCTIONS/EQUIPMENT/CAPABILITIES
LAB SPACES TEST INSTRUMENTS AND SPECIALIZED ELECTRONIC MECHANICAL AND OPTICAL EQUIPMENT TO PERFORM DESIGN FABRICATION AND TESTING OF ELECTRONIC CIRCUITS COMPONENTS EQUIPMENTS IN DISPLAY PRINTING SPEECH NARROW AND WIDE BAND RADIOS FROM LMR TO LASER FREQUENCY RANGE CONVENTIONAL AND ADVANCED MULTIPLEXING SWITCHING ERROR DETECTION AND CODING ANTENNA AND PROPAGATION TECHNOLOGIES SMALL SCALE COMPUTERS TO TEST AND EVALUATE ADVANCED COMPUTER CONCEPTS AND SUBSYSTEM SOFTWARE AND HARDWARE FIXED AND MOBILE TACTICAL RADIO MODEM MULTIPLEXING SWITCHING EQUIPMENTS TO SIMULATE FIELD CONFIGURATIONS FOR TEST DATA COLLECTION AND EVALUATION OF EXISTING EQUIPMENT PROPAGATION INTERFACE PROBLEMS ANTENNA TEST FACILITY AND SHIELDED ROOMS FOR MEASURING AND ESTABLISHING DIN STANDARDS FOR ELECTROMAGNETIC COMPATIBILITY RADIATION AND PROPAGATION

INSTALLATION CONSTRUCTION ENGINEERING RESEARCH LABORATORY UPHAM, IL.

DA0066

DIR. CDR R.W. REISACHER

DEP. DIR. MR. R.L. SHAFFER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RD&E	6.186	6.920
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	1.254	0.350
TOTAL OTHER	0.014	0.081
TOTAL ANNUAL LAB	7.454	6.451
TOTAL INHOUSE	4.086	4.485
TOTAL INHOUSE RD&E	3.526	4.154
ANNUAL OPERATING COST	1.465	1.204

PERSONNEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)		NON- PROF
		TOTAL PHDS	TOTAL PROF	
MILITARY	5	0	4	1
CIVILIAN	177	37	109	68
TOTAL	182	37	113	69

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	EQUP
30	74.621	32.559	0.000	107.180	3.851	2.093

...MISSION
PLAN, EXECUTE AND EVALUATE RESEARCH TO OBTAIN THE BEST COMBINATION OF
ENGINEERING, DESIGN, CONSTRUCTION, OPERATION AND MAINTENANCE TO PROVIDE
FACILITIES FOR THE MILITARY ESTABLISHMENT AND OTHER AGENCIES AT LEAST
COST AND DISSEMINATE THE RESEARCH RESULTS.

...CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF MATERIALS FOR PERMANENT MILITARY CONSTRUCTION
ENVIRONMENTAL QUALITY FOR MILITARY CONSTRUCTION AND FACILITIES OPERATION
INDUSTRIALIZED BUILDINGS FOR MILITARY CONSTRUCTION APPLICATIONS
DEVELOPMENT OF IMPROVED DESIGN, CONSTRUCTION AND MANAGEMENT TECHNIQUES
EVALUATION OF ELECTROMECHANICAL SYSTEMS FOR MILITARY FACILITIES

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONTROLLED ENVIRONMENT CHAMBER, 1-MILLION POUND CLOSED-LOOP MATERIALS
TEST SYSTEM, SCANNING ELECTRON MICROSCOPE, IONIC RESISTANCE LOAD MARK AND
INSTRUMENTATION, X-RAY EQUIPMENT, SEMI-AUTOMATIC WELDING EQUIPMENT,
BIAXIAL SHOCK TEST MACHINE, NON-DESTRUCTIVE TESTING FACILITY, VACUUM
INDUCTION FURNACES, METALLOGRAPHIC SAMPLE PREPARATION AND RESEARCH
MICROGRAPH X-RAY DIFFRACTION AND VACUUM SPECTROSCOPY SYSTEM, DYNAMIC
TENSION ANALYSIS SYSTEM, DIGITAL RECORDING AND ANALYSIS EQUIPMENT
FACILITIES CAPABILITIES INCLUDE SYSTEMS BUILDING METHODS AND TECHNIQUES,
COMPUTER BASED DESIGN AND CONSTRUCTION MANAGEMENT TECHNIQUES, HARDENED
FACILITIES ANALYSIS, ENVIRONMENTAL QUALITY MANAGEMENT, POLLUTION CONTROL
AND ABATEMENT, MILITARY IMAGING SYSTEMS, POWER GENERATION SYSTEMS,
UTILITIES SYSTEMS ANALYSIS AND EVALUATION, AND ARCHITECTURAL RESEARCH.

INSTALLATION DESERET TEST CENTER (LABS)

DUGWAY, UTAH

040062

C.O. COL. ROBERT A. SHAW

SCIENTIFIC DIR. MR. H.A. RETHEMBERG

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT & EST)
TOTAL R&D	11.844	10.564
TOTAL PROCUREMENT	0.654	1.641
TOTAL CCM	0.957	1.190
TOTAL OTHER	2.301	1.334
TOTAL ANIMAL LAB	15.756	14.709
TOTAL INHOUSE	16.100	13.811
TOTAL INHOUSE R&D	11.059	10.183
ANNUAL OPERATING COST	10.222	10.171

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	201	3	171	30
CIVILIAN	736	16	129	607
TOTAL	937	19	300	637

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER	TOTAL REAL FACP EQUIP
840911	103.898 130.951 1710.963	1932.892 49.551 16.969

MISSION
DPC PLANS & CONDUCTS APPROVED TESTS TO ASSESS THE MILITARY VALUE OF CML WEAPONS & CML-BIO DEF SYS TESTS SPTR & DPC PROVIDE A BASIS FOR DEVELOPMENT OF NEW OPERATIONAL & LOGISTICAL CONCEPTS FOR EMPLOYMENT OF TESTED SYS TESTS ARE RESPONSIVE TO USER REQUIREMENTS

CURRENT IMPORTANT PROGRAMS

CONDUCTS SERVICE DEV CML CML-BIO DEFENSE TEST PROGRAMS
CONDUCTS R&D & LAB INVESTIGATIONS NECESSARY TO SUPPORT MISSION
CONDUCTS JT OR CML & CML-BIO DEFENSE TESTS FOR CINCS AND SERVICES
CONDUCTS PROG TO SUP ARMY POL ABATEMENT SUP SHIELD & DEMIL OPERATIONS
CONDUCTS ECOLOGICAL EPIDEMIOLOGICAL & TOXICOLOGICAL SURV OF DPG ACTS

FUNCTIONS/EQUIPMENT/CAPABILITIES

MASS SPECTROMETRY GAS CHROMATOGRAPHY RADIOSISLOPE TRACER LABS MASS INFRARED VISIBLE & ULTRAVIOLET NUCLEAR MAGNETIC RESONANCE FLUORESCENCE SPECTROMETRIC EQUIP ANALYTICAL CENTRIFUGES RECORDING POLAROGRAPH & ORG SYNTHESIS FAC MICROBIOLOGICAL IMMUNOLOGICAL EPIDEMIOLOGICAL ECOLOGICAL LABS FAC FOR REARING & HOLDING EXPERIMENTAL ANIMALS (DOMESTIC & WILD) LARGE & SMALL ENVIRONMENTAL CHAMBERS INCLUDING LARGE DEF TEST CHAMBER ELECTRODYNAMIC & MECHANICAL VIBRATORS COMMUNICATION & RANGE SAFETY SYS GENETIC/PHYSICAL SPECIALIZED BALLISTICS TRACKING & DOCUMENTARY CAMERAS METEOROLOGICAL AUTO DATA ACQUISITION SYS MESOMETEOROLOGICAL NETWORK ELECTRONIC OPTICAL RADAR DETERMINATION & TRACKING SYSTEMS OPTICAL MECHANICAL SLAVING TRACKING AND DATA GENERATING EQUIPMENT SPACE POSITION DETERMINATION CAPABILITY

INSTALLATION: EDGECOOD ARSENAL LABORATORIES

EDGECOOD ARSENAL, MD.

0A0038

C.M. COL KENNETH L. STAHL

TECH. DIR. DR. BENJAMIN L. HARRIS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	31.487	33.348
TOTAL PROCUREMENT	2.110	3.191
TOTAL C&M	3.634	4.166
TOTAL OTHER	2.200	2.087
TOTAL ANIMAL LAB	39.639	42.762
SUPER INHOUSE	37.302	39.189
TOTAL INHOUSE R&D	29.350	29.745
ANNUAL OPERATING COST	15.277	15.555

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PNS	TOTAL PROF	NON- PROF
MILITARY	219	54	152	67
CIVILIAN	1183	67	526	657
TOTAL	1402	121	678	724

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER	TOTAL REAL PROF EQUIP
4055	656.713 97.329 148.156	742.196 16.450 12.851

MISSION

CLASS II ACTIVITY CONDUCTING A RESEARCH AND DEVELOPMENT MISSION FOR ARMY CHEMICAL MUNITIONS AND DEFENSIVE ITEMS. INCLUDES BASIC RESEARCH AND GENERAL INVESTIGATIONS AS WELL AS EXPLORATORY, ADVANCED AND ENGINEERING DEVELOPMENT OF MATERIALS.

CURRENT IMPORTANT PROGRAMS

DEMINING-PROTECTIVE LACKS AGAINST LETHAL CHEMICAL AGENTS
BIOLOGICAL AND CHEMICAL AGENT ALARM DEVELOPMENT
BINARY LETHAL CHEMICAL AGENT PROJECTILE DEVELOPMENT
ACUTE & CHRONIC TOXICITY OF COMPONENTS FOR THE BINARY SYSTEMS
DEVELOPMENT OF RING AIR FOUL GRENADE

FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCT IND R&D OF ANTIERS CML AGTS & IN VEC CML AT&SMOT OF IMAI LAB FOR CML ABATE & ENVIRON CON TECH/TOX-PHYS & PHARM IN CML COMPOUNDS & ANTIERS-ANTIMAT FLAMM INCEND AGTS/DA RSCN OF DEF AGAINST CML ATTACK & DISSEM-EXPNS OF CML MUN/AERODYNAMICS RSCN/INVEST SIMULANTS & ING AGTS/DEV CML AGT PRIC-TST & ASSESS TECH/DEV CIVIL DISASTR-MIT CONTROL SYS/INTELLIGENCE EXPLOITATION/DEV PROT EQUIP & WNG-DETECT MAT FOR USE AGAINST CML ATTACK & DEV CML AGENT MUNITIONS SYSTEMS.
MAJOR EQUIP IS CONTAINED IN A COMPLEX OF ENGR & LAB AREAS & INCLUDES CML PILOT PLTS-MIN FILLING-ENGR DESIGN & EXP LAB SHOPS; ARSENAL BESSEN TEST CHAMBERS; PYROTECH MIXING-LOADING & HANDLING FAC;INDOR BALLISTIC RANGE; SUBSONIC-SUPERSONIC & TRANSONIC WIND TUNNELS; A COMPLETE CLINICAL RESEARCH FACILITY & AN ANIMAL BREEDING & HOLDING FACILITY.

INSTALLATION ELECTRONIC PROVING GROUND

FT. HUACHUA, AR.

DA0054

C.O. COL EARL D. DOWNING

TECH. DIR. DR. GEORGE E. SCHAFER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	7.945	6.864
TOTAL PROCUREMENT	1.655	1.911
TOTAL OEM	0.148	0.220
TOTAL OTHER	3.207	3.076
TOTAL MINWAL LAB	12.955	12.875

TOTAL INHOUSE	10.078	9.705
TOTAL INHOUSE RDT&E	5.337	3.955
ANNUAL OPERATING COST	1.659	1.515

PERSONNEL	AUTORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)			NON- PROF
		TOTAL PHDS	TOTAL PROF	NON- PROF	
MILITARY	277	0	47	730	
CIVILIAN	186	2	64	122	
TOTAL	463	2	111	352	

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP EQUIP
49600	0.000	200.739	0.000	200.739	2.918	25.182

...MISSION
OPERATE USA ELECTRONIC PROVING GROUND, CONDUCT AND REPORT ON FTS,
CHECK TESTS, INITIAL PWN TESTS, PPT, ASGD SVC TESTS. PLAN, CONDUCT, AND REPT
ON EMC AND ECM TEST ANALYSES AS APPLIED TO COMMUNICATION-ELECTRONICS
EQUIPMENT/SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
METHODS OF MEASURING REFRACTIVITY ERROR
C-E EQUIPMENT TESTING
INSTRUMENTATION
METEOROLOGY
RADIO FREQUENCY COMPATIBILITY PROGRAM

...FUNCTIONS/EQUIPMENT/CAPABILITIES
OPERATE AN ELECTROMAGNETIC ENVIRONMENTAL TEST FACILITY, ELECTRONIC
COUNTERMEASURES VULNERABILITY TEST FACILITY, SYSTEMS TEST FACILITY, AND
ENVIRONMENTAL TEST FACILITY.

INSTALLATION ELECTRONIC WARFARE LABORATORY

FT. MONMOUTH, N.J.

DA0063

DIR. MR. CLYDE D. HARDIN

DEP. DIR. LTC W. CLINGEMPEL

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	32.164	32.849
TOTAL PROCUREMENT	0.060	0.100
TOTAL O&M	0.345	0.345
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	32.569	33.294
TOTAL INHOUSE	15.201	16.115
TOTAL INHOUSE RDT&E	14.756	15.870
ANNUAL OPERATING COST	3.673	3.735

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PROF	NON- PROF
MILITARY	50	0	11	39
CIVILIAN	417	3	198	219
TOTAL	467	3	209	258

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER	TOTAL REAL PROF EQUIP
0	61.311 40.867 10.650	113.029 2.525 14.575

...MISSION
BFS AND DEV ESSENTIAL TO ELECTRONIC WARFARE AND SELECTED AREAS OF INTEL.
ENCUMBRANCES APPLD R&D INCL ORG DEV AND SPT IN INTERCEPT, DF, SIG ANALYSIS,
JAMMING, DECEPT, SIG INTELL, ACOUST INTELL, AGENT EQUIP, SECURITY, COUNTER-
INTELLIGENCE, VULNERABILITY AND COUNTER-COUNTERMEASURES.

...CURRENT IMPORTANT PROGRAMS
PROTECTION OF ARMY AIRCRAFT
ASALEC SIGINT PROGRAM-ARDF
MISSILE ELECTRONIC WARFARE
PROTECTION OF COMBAT VEHICLES
ORG READINESS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

ECM EQUIP & DEVICES R&D FACILITY, MISSILE EW, DF TEST FACILITY, MAJOR EQUIP
VT FUZE SIMULATOR, LASERS, RTHS, ANN ECM LABS, IR TEST RANGE, ECM TEST RANGE,
ANEMOLOGIC CHAMBER, ANTENNA PATTERN RANGE, 20MHZ-40GHZ. CAPABILITIES, CONCEIVE
DESIGN, DEVELOP ECM AGAINST C-E EQUIP. CONCEIVE, DESIGN, DEVELOP NEW EW SYS
FOR SIGINT, FLINT, COMINT, ORG APPLICATIONS. MEASURE VULN TO ECM OF ARMY
GUIDED MISSILES. PROVIDE LINEAR, SQUARE ROOT, LOG ANTENNA PATTERN
PRESENTATIONS.

INSTALLATION ELECTRONICS TECHNOLOGY AND DEVICES LAB FT. MONMOUTH, N.J.

DA0062

DIR. DR. HANS ZIEGLER DEP. DIR. MR. S. DANKO

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	16.747	12.658
TOTAL PROCUREMENT	0.600	0.498
TOTAL O&M	0.245	0.021
TOTAL OTHER	0.116	0.006
TOTAL ANNUAL LAB	17.708	13.183
TOTAL INHOUSE	10.567	8.829
TOTAL INHOUSE R&D	9.871	8.314
ANNUAL OPERATING COST	1.980	2.010

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	6	4	12	6
CIVILIAN	37	38	237	140
TOTAL	383	42	249	146

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	129.196	4.878	3.046	137.110	0.000	17.443

...MISSION

THE LABORATORY PLANS AND EXECUTES A BROAD BASED INTERNAL AND CONTRACTUAL PROGRAM IN THE AREAS OF INTEGRATED CIRCUITS, SEMICONDUCTOR DEVICES, DISPLAY DEVICES, MICROWAVE AND SIGNAL PROCESSING, POWER SOURCES, FREQUENCY CONTROL, ELECTRON TUBES, MATERIALS, NUCLEAR HARDENING AND TIME.

...CURRENT IMPORTANT PROGRAMS
CONVERSION OF ARMY ELECTRONIC EQUIPMENT TO ALL SOLID STATE OPERATION.
ADVANCEMENT OF INTEGRATED CIRCUITS AND MICROELECTRONICS.
DEVELOPMENT OF POWER SOURCES FOR THE FIELD ARMY.
DEVELOPMENT OF ELECTRON TUBES, FREQUENCY CONTROL DEVICES FOR C-E EQUIPT.
DEVELOPMENT OF TIME FOR IMPROVED FIELD, DEPOT LOGISTICS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FACILITIES ARE AVAILABLE FOR PERFORMING EXPLORATORY RESEARCH IN PHYSICS AND CHEMISTRY OF ELECTRONIC MATERIALS AND FOR CONDUCTING R AND D ON ELECTRONIC PARTS, DEVICES, INTEGRATED CIRCUITS AND ASSEMBLIES. LABORATORIES FOR PERFORMING R AND D IN THESE AREAS ARE EQUIPPED WITH THE NORMAL COMPLEMENT OF STANDARD LABORATORY INSTRUMENTATION AND FACILITIES. LABORATORY WORK AREAS INCLUDE FACILITIES FOR THE COMPLETE FABRICATION AND TESTING OF INTEGRATED CIRCUITS AND ASSEMBLIES, SEMICONDUCTOR DEVICES, ELECTRON TUBES, DISPLAY STORAGE AND PICKUP DEVICES. ALSO FOR PRIMARY, SECONDARY AND SPECIAL PURPOSE POWER SOURCES, ELECTROCHEMICAL RESEARCH AND FOR THE CHARACTERIZATION OF ELECTRONIC MATERIALS, AND FOR STUDIES OF NUCLEAR RADIATION ON ELECTRONIC MATERIALS.

INSTALLATION ENGINEER TOPOGRAPHIC LABORATORIES

FT. BELVOIR, VA.

DA0006

C.O. COL JOHN E. WAGNER

TECH. DIR. MR. ROBERT P. MACCHIA

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		1974	
	(ACTUAL)	(ACT + EST)	(ACT)	(EST)
TOTAL ROTGE	9.998		10.132	
TOTAL PROCUREMENT	0.000		0.000	
TOTAL CGM	0.000		0.000	
TOTAL OTHER	0.218		0.258	
TOTAL ANNUAL LAB	10.216		10.390	
TOTAL INHOUSE	6.384		6.986	
TOTAL INHOUSE ROTGE	4.167		6.748	
ANNUAL OPERATING COST	0.604		0.604	

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL		NON- PROF
		PROF	NON- PROF	
MILITARY	20	2	15	5
CIVILIAN	310	22	131	129
TOTAL	330	24	136	134

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAND	ADMIN	OTHER	TOTAL	REAL	PROP EQUIP
0	55.899	10.828	3.700	70.427	0.000	10.488

MISSION

ACCOMPLISHES RESEARCH AND DEVELOPMENT OF SYSTEMS, EQUIPMENT, PROCEDURES AND TECHNIQUES APPLICABLE TO MAPPING, SURVEYING, GEODESY, PHOTO-INTERPRETATION AND ANALYSIS OF ENVIRONMENTAL DATA RELEVANT TO MILITARY OPERATIONS AND MATERIEL DEVELOPMENT.

CURRENT IMPORTANT PROGRAMS

- DEVELOPMENT OF A SEMI-AUTOMATIC CARTOGRAPHIC SYSTEM
- DEVELOPMENT OF A TOPOGRAPHIC SUPPORT SYSTEM
- DEVELOPMENT OF AN ARMY TERRAIN INFORMATION SYSTEM
- DEVELOPMENT OF A LONG-RANGE POSITION DETERMINING SYSTEM
- DEVELOPMENT OF A POSITION AND AZIMUTH DETERMINING SYSTEM

FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES INCLUDE AN EXPERIMENTAL CARTOGRAPHIC LABORATORY TO STUDY THE PROBLEMS ASSOCIATED WITH HANDLING DIGITAL CARTOGRAPHIC DATA, A PHOTOGRAPHIC PROCESSING LABORATORY TO SUPPORT INVESTIGATIONS OF COLOR PHOTOGRAPHY, A MENSURATION LABORATORY FOR PRECISE MEASUREMENT OF IMAGE COORDINATES REQUIRED IN ANALYSIS OF DATA REDUCTION SYSTEMS, A COHERENT OPTICS LABORATORY, AN ELECTRONICS LABORATORY THAT CAN ANALYZE CIRCUITS FROM DC TO 40 GHZ, AND A CHEMISTRY LABORATORY TO SUPPORT ANALYSIS OF THE IMAGE REPRODUCTION PROCESS. COMPUTATIONAL CAPABILITIES INCLUDE A FULL DUPLEX INPUT TO THE NATIONAL BUREAU OF STANDARDS UNIVAC 1108 WITH A PLANNED CHANGE OVER, BY THE END OF CALENDAR YEAR 1973, TO THE CDC 6600, AT THE U.S. ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT CENTER, FORT BELVOIR, VIRGINIA.

INSTALLATION ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG, MISS.

DA0005

DIR. LIT. GEORGE H. HILT

TECH. DIR. MR. F.R. BROWN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		(ACT + EST)
	FACTUAL	1974	
TOTAL RDT&E	14.506	12.999	
TOTAL PROCUREMENT	0.000	0.000	
TOTAL OEM	0.521	0.301	
TOTAL OTHER	13.278	24.308	
TOTAL ANNUAL LAB	26.305	37.600	
TOTAL INHOUSE	24.505	20.350	
TOTAL INHOUSE RDT&E	12.153	10.934	
ANNUAL OPERATING COST	4.378	4.550	

PERSONNEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)		NON- PROF
		TOTAL PHYS	TOTAL PROF	
MILITARY	58	4	64	6
CIVILIAN	1247	43	372	875
TOTAL	1305	47	436	881

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1974	1394.970	346.807	190.228	1932.005	15.315	25.956

...MISSION
MIL/CIV FUNDED ENGR RSCH, DEV INVES IN HYD, ECOLOGY, PERM, EXPEDIENT PAVEMENTS, SOIL, CONCRETE, EXPLO. WPN EFF, EXPLO. EXCAVATION, VEH MOBILITY, ENVIRONMENTAL ASPECTS OF MIL OP, CONSULTANT SVC & TECH LIBRARY, TECH SURV OF CEMNTGPOZULAN TEST PRG, SERVES CF, AMC, DNA, AEC, AF, NAVY & OTHER AGENCIES.

...CURRENT IMPORTANT PROGRAMS
HYDRAULIC MODELING TO SOLVE RIVER, TIDAL, WIND-WAVE, ECOLOGICAL & STRUC. PROBLEMS, RSCH ON VEH MOBILITY, REMOTE SENSING, DREDGED MAT, EARTHQUAKE DESIGN CRIT. NUCLEAR RSCH TO DEV CRIT FOR ED OF PROTECTIVE STRUCTURES, RSCH, DEV & FORMATION OF NEW EMP ENG CRIT ON ROADS, STORM AREAS, GOLFIELDS, INVES OF CEMENTITIOUS MATERIALS OF MASS-STRUC CONCRETE.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
COT RDT&E FOR MANY SPNSRS, PERFORM INVES IN FLD OF HYD, SOIL MECH, CONCRETE, MOBILITY OF MIL VEH, EXPLO. EFF, ECOLOGY, EXPLO. EXCAVATION, PAVEMENTS. THRU RPAAPPLIED RSCH IN THESE FLD, THE DEV OF METHODS & TECHNIQUES AND THE TESTING OF MATEQ/EQUIP, ASST IN ACCOUNT OF THE CIV WORKS/CIVIL MSN OF CEM. RESERVATION CNTN. BLINGS, TEST SITES, SPECI EQUIP/GTHER PLANT FAC. TEST SITES/FAC FOR SP PURPOSES ARE MAINT IN OTHER AREAS ON PERM OR TEMP BASIS, FAC INCL. FLUMES OF DIFF TYPES & SIZES, WAVE/TIDE GENR. MACH, DRILL EQUIP, FULLY EQUIPPED SOILS, CONCRETE, CHEMISTRY, PHYS. TREATMENT, CALCH, ELCTC TEMPERATURE CON. ENVIRONMENTAL MODEL LARNS, X-RAY DIFFRACTION, SPECTROSCOPY APPAR, LARGE/SMALL BLAST LOAD GENERATOR, 200K DYNAMIC LOADER, MOBILITY TEST AND SINGLE/MULTIPLE WHEEL LOAD CARTS, SIR. EFF. BLAST FAC, HIGH/LOW FREQ. VIBRATORS, ELCTRIC MICROSCOPE, LARGE SCALE CHART FAC & TECH LIBRARY.

INSTALLATION FIELD ARTILLERY BOARD

FT. SILL, OK.

DA0051

PRES. COL. FORTIN L. WERER, JR.

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACF / EST)
TOTAL RDT&E	1.140	1.072
TOTAL PROCUREMENT	0.000	0.000
TOTAL COM	0.000	0.000
TOTAL OTHER	3.702	3.700
TOTAL ANNUAL CSD	4.848	4.772
TOTAL INHOUSE	4.757	4.762
TOTAL INHOUSE RDT&E	1.055	1.062
ANNUAL OPERATING COST	0.283	0.311

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		NUN- PROF
	AUTHORIZED STRENGTH	TOTAL PIOS	
MILITARY	368	0	72
CIVILIAN	44	0	2
TOTAL	412	0	74

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			REAL	PROP	EQUIP
	LAB	ADMIN	OTHER	TOTAL		
23	26.246	47.835	56.018	129.539	3.175	8.930

...MISSION

PLAN CONDUCT AND REPORT ON DEVELOPMENT TEST I (DEVELOPMENT PHASE) PARTICIPATE IN DEVELOPMENT TEST II (ENGINEERING PHASE) AND DEVELOPMENT TEST III AS DIRECTED CONTRACT OTHER TESTS AND EVALUATIONS AS DIRECT PROVIDED ADVICE TO PROPOSAL AGENCIES AND DEVELOPERS

...CURRENT IMPORTANT PROGRAMS

DTL/1 SERVICE PHASE I TACFIRE
DTL/1 SERVICE PHASE II ECL-16 X4255
DTL/1 SERVICE PHASE III ECL-2 82N SP HOW
DTL/1 SERVICE PHASE I RADAR AN/TPS 5RA
DTL/1 SERVICE PHASE I NET SYSTEM AN/UNQ-7

...FUNCTIONS/EQUIPMENT/CAPABILITIES

THREE 105MM HOW THRU 155MM HOW ONE 82MM HOW/175MM GUN ONE AN-MPG4 RADAR
ONE MET STATION AND MAINTENANCE AND EVALUATION FACILITIES TO DUE UP TO
GS HAVING IN TEST ITEMS ADDITIONAL SUPPORT WHEN NEEDED IS OBTAINED
FROM USAFACCS

INSTALLATION FRANKFORD ARSENAL LABORATORIES

PHILADELPHIA, PA.

040035

C. O. CHIEF OF WING

TECH. DIR., DR. SIDNEY ROSS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		1974	
	FACTUAL	FACT + EST	FACT	EST
TOTAL R&D	27.183	25.612		
TOTAL PROCUREMENT	5.895	5.481		
TOTAL OEM	0.000	0.000		
TOTAL OT&WP	0.064	0.064		
TOTAL ANNUAL LAB	32.042	30.957		
TOTAL INHOUSE	25.606	25.599		
TOTAL INHOUSE R&D	20.347	20.054		
ANNUAL OPERATING COST	5.577	5.888		

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS		
MILITARY	34	0	24	10
CIVILIAN	1666	46	633	1033
TOTAL	1700	46	657	1043

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAN	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
43	570.641	149.872	462.372	1182.885	19.499	12.232

MISSION
COMMODITY CNTR/SMALL CAL AMMO, FIRE CONTROL SYS, PROP ACTIVAT DEVICES, DEV & ENG SUPP/PIACERS, ARTIL METAL PARTS, MECH TIME FUZES CYCLERS, RES CNG DEV/OPTICAL MAT ETC/10-100 METAL, MATER DEGRAD/ATRAT'S, SYNTH LUBS, FLUIDS LASER COUNTERMEASURE & SAFETY, CORROSION PREV, CYCLOLGY, TIME, PROP, PYROTECH.

CURRENT IMPORTANT PROGRAMS
ARMY SMALL & SMALL CANNON CAL AMMO RES, DEV, & ENG PROGRAM
SMALL CALIBER 44MM MITN MODERNIZATION PROGRAM, SEAMP
FIRE CONTROL EQ FOR AIRCRAFT, ANTIAIRCRAFT, ARTIL, COM VEH, SMALL CAL WEAP
CENTRAL AMM LAB FOR TEST MEASUREMENT DIAGNOSTIC EQUIPMENT, TIME
RESEARCH AND EXPLOD DEV FOR LASER COUNTERMEASURE AND PROTECTION

FUNCTIONS/EQUIPMENT/CAPABILITIES
36 BALLIST TEST RANGES, BALLIST MEAS EQUIP-PHOTONETRIC TRACER, MICROWAVE INTERFEROMETER, HIGH SPEED HARD ESDOT X-PAY, CUPPLER RADAR, ANCHILIC CHAM, Holographic EO/VERT TEST TOWERS, 6 PADS FOR POINT FUZE DETON, IR IN-HI-SHOCK MACHINE, 155MM AIR GUN, SPEC IGR, ECOMBUST EO, RAPID SCAN SPECTROPHOTOMETER, ELECT MICROSCOPE, SPECTROMETER, OPTICAL LAB, DESIGN SHOP, LASER TEST FAC, 1000 FT STAFF PIV LAB, ELCFT BEAM VAC FILM DEPOSIT EQUIP, PIOTOFELASTIC STRESS ANAL EQUIP, ATWISI, 5MM ATIR, CDC BATT TERMINALS, HYDRAULIC & MECH POWDER MHD EQUIP, MICROBIOLOGY LAB, TROP CLIMATE ROOM, DILFF SCAN CALORIMET PROP PROF LAB, AIRBORNE FIRE CONTROL EQUIP, AUTOMAT CHECK-OUT EQUIP, MINIDTV, GUNNIR BINN, SEAMP HODLES, PILOT FUZE LOAD FAC, RADI-150IPE LAB, ULTRASONIC MAT TEST SYS, ELEC MICROPORATE, VAC-ARC MELTING FURN, STAT-CYAN, IMPACT TEST, MATH ENG VEHICLE TEST FAC, LASER PHOTOPHYSIS, SPACE SIMULATOR.

INSTALLATION: HARRY DIAMOND LABORATORIES

WASHINGTON, D.C.

DA0025

C.D.R. COL DAVID W. EINSEL, JR.

TECH. DIR. MR. HILLY H. HORTON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	63.041	35.350
TOTAL PROCUREMENT	10.320	45.137
TOTAL C&R	12.762	18.602
TOTAL OTHER	2.134	4.568
TOTAL ANNUAL LAN	68.257	107.057
TOTAL INHOUSE	27.021	36.674
TOTAL INHOUSE R&D	23.190	25.648
ANNUAL OPERATING COST	8.371	9.719

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	
MILITARY	9	9	0
CIVILIAN	1578	67	800
TOTAL	1587	70	800

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAN	ADMIN	OTHER	TOTAL	REAL PRCH	EQUIP
2269	281.602	46.119	54.154	381.875	11.874	26.509

...MISSION

INFLUENCE TIME AND COMMAND FUZING/TARGET DETECTION AND SIGNATURE ANALYSIS/FAIRING/INTERCEPT PHASE OF TERM GUID/WEAPON SYS SYNTHESIS/ANALYSIS/NUCLEAR EFFECTS & OTHER SEVERE ENV/FLUIDICS & MHD ENG/INSTRUMENTATION SIMULATION/COMPONENTS/MATERIALS/INDUSTRIAL MAINTENANCE ENGINEERING

...CURRENT IMPORTANT PROGRAMS

R&D ON PROXIMITY & ELECTRONIC FUZING/MICROMINIMIZATION OF ELECTRONIC COMPONENTS/POWER SUPPLIES/NUC ARMS EFFECTS/IR/INTERNAL & EXTERNAL EMP/SPEC PURCHASE RADARS/FLUIDICS/M1140 LANCE FUZE/CAMP SENTINEL RADAR/EXN732 SHORT IMPUSION FUZE/MULTIOPTION FUZE FOR MORTARS XM734/SAM-0 FUZE/TEMPS ARMED STUDIES/CHAPARRAL FUZE XM817/FUZE ON A CHIP RES/XM807 TIME FUZE

...FUNCTIONS/EQUIPMENT/CAPABILITIES

SIMULATORS TO DETERMINE SUSCEPTIBILITY OF WEAPON SYSTEMS TO NUCLEAR WEAPONS EFFECTS & TO ESTABLISH HARDENED DESIGNS/PULSED NUCLEAR REACTOR & HIGH INTENSITY X RAY/AN EXTREMELY LARGE DOSE & VOLUME GAMMA RAY GENERATOR/ARMADA & BICOMIC ELECTROMAGNETIC PULSE EMP DEVICE & LARGE TRANSPONDER/EMP SIMULATOR/TEMPS FOR HIGH ALTITUDE & THREAT LEVEL ENVIRONMENT SIMULATION/ARTILLERY SIMULATOR TO EVALUATE EFFECTS OF FIRING FORCES/LATITUDE MAGNETIC SIMULATOR FOR ANTI-TANK SIGNATURE ANALYSIS/INFRARED DARK TUNNEL/ARTILLERY TEST RANGE/RADAR TEST SITE/ HIGH PRESSURE SHOCK TUNES FOR STUDY OF HIGH TEMP EASES/ MERCURY ARC PLASMA TUBE & OPTICAL & SPECTROSCOPIC EQUIPMENT

INSTALLATION HUMAN ENGINEERING LABORATORY

AMERDEEN PROV GR, MD.

DA0026

DIR. DR. JOHN D. WEISZ

EXEC. LTC RICHARD D. KAVANAUGH

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL ROFCE	6.089	3.775
TOTAL PROCUREMENT	0.298	0.000
TOTAL G&R	0.000	0.250
TOTAL OTHER	0.305	0.330
TOTAL ANNUAL LAB	6.692	4.355
TOTAL INHOUSE	5.292	3.623
TOTAL INHOUSE ROFCE	4.649	3.043
ANNUAL OPERATING COST	1.313	1.300

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	30	1	22	8
CIVILIAN	100	10	65	35
TOTAL	130	11	87	43

ACRIS	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROP
10	26.500	17.605	28.953	73.058	0.700	2.700

...MISSION

CONDUCT BASIC AND APPLIED RSCH IN HUMAN FACTORS ENGR
DEVELOP NEW HUMAN FACTORS ENGINEERING METHODOLOGY
ESTAB AND OPERATE A MPHFR CHARACTERISTICS DATA BANK
INTGR ALL MPHFR CHARACT'S INTO ARMY MAT DEV PROGRAM

...CURRENT IMPORTANT PROGRAMS

HUMAN ENG LAB BN ARTY TESTS, HELBAT
HUMAN ENG LAB ARMOR SYSTEMS TESTS
COMBAT-LIKE PSYCHOLOGICAL STRESS EFFECTS
SHORTRANGE MANPORTABLE ANTITANK WPN TECHNOLOGY
HUMAN FACTORS ENGR IN SPT OF AIR MOBILITY

...FUNCTIONS/EQUIPMENT/CAPABILITIES

INSTRUMENTED PHYSICAL EXERCISE COURSE
HELICOPTER SIMULATORS - WIRELINE
COMMAND AND CONTROL INFORMATION HANDLING SIMULATORS
ANEROID CHAMBER
PHYSIOLOGY LABORATORY WITH INSTRUMENTATION
SMALL ARMS TEST FIRING RANGE
ANIMAL SURGICAL FACILITY
NOISE MEASUREMENT AND ANALYSIS INSTRUMENTATION
WOOD AND METAL WORKING TEST SUPPORT CAPABILITY
HEAVY ARMOR TEST SITE
CENTRAL NERVOUS SYSTEM OUTPUT RECORDING INSTRUMENTATION
HUMAN PERFORMANCE DATA BANK

INSTALLATION INFANTRY BOARD

FT. BENNING, GA.

DA0047

PRES. COL WALTER E. MCINZEN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	1.195	1.263
TOTAL PROCUREMENT	0.000	0.000
TOTAL GCM	0.006	0.034
TOTAL OTHER	2.201	2.139
TOTAL ANNUAL LAB	3.402	3.436
TOTAL INHOUSE	3.383	3.410
TOTAL INHOUSE RDT&E	1.176	1.237
ANNUAL OPERATING COST	0.198	0.179

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS	
MILITARY	161	0	16
CIVILIAN	58	0	56
TOTAL	219	0	201

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PREP EQUIP
0	0.000	50.053	21.194	71.247	0.802	0.360

...MISSION

PLAN CONDUCT & REPORT ON DEVELOPMENTAL TESTS,
TESTS, FEASIBILITY TESTS, ENGR DESIGN TESTS & PRODUCT IMPROVEMENT TESTS.
PARTICIPATE IN DEVELOPMENTAL AND PREPRODUCTION TEST AS DIRECTED.
PROVIDE ADVICE TO PROVONENT AGENCIES AND MATERIEL DEVELOPERS.

...CURRENT IMPORTANT PROGRAMS

CHECK OPERATIONS TEST MEDIUM ANTI-TANK ASSAULT WPN XM67 DRAGEN
LIGHT WEIGHT COMPANY MTR SYSTEM
SERVICE TESTS OF NIGHT VISION SIGHTS ANPVVS-4
DESRT CLOTHING SYSTEM
SERVICE TEST MICOV XM723

...FUNCTIONS/EQUIPMENT/CAPABILITIES

EQUIP & AUXILIARY ITEMS USED BY INF FOR FIRE POWER TARGET ACQUISITION,
GRINDING SURVEILLANCE, FIRE CONTROL & DND MOBILITY CLOTHING EQUIP RATS &
CUCKING & MESSING EQUIP, ANTI-PERSONNEL MINES & RELATED EQUIP, OFF-MEALS,
BIOLOGICAL & RADIOPHYSICAL EQUIP FOR INDIVIDUALS ITEMS ARE WORN OR
CARRIED BY INDIVIDUAL PARACHUTISTS WHILE JUMPING AND THEN CARRIED AFTER
CLEARING THE DROP ZONE, REVIEW & COMMENT ON TRAINING DEVICE REQUIREMENT
DOCUMENTS, TRAINING PACKAGES, MAINTENANCE TEST PACKAGES & ASSIST IN THE
REVIEW OF MILITARY SPECIFICATIONS, PROVIDE TECH TEST REQUIREMENTS FOR
THE COORDINATED TEST PLAN, PLAN, DIRECT & CONTROL A PROGRAM IN TEST WITH
TEST INSTRU & TEST FACILITIES NEEDED TO SUPPORT TEST REQUIREMENTS WITHIN
ASSIGNED MISSION AREA, SUPPORT OTHER AMG SUBORDINATE ELEMENTS.
PROVIDE TECH MEMBERSHIP REPRESENTATION ON THE USAIC TEAM.

INSTALLATION INSTITUTE OF DENTAL RESEARCH

WASHINGTON, D.C.

DA0009

C.O. CIR. SIMON CIVJAN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDTLE	0.932	0.795
TOTAL PROCUREMENT	0.000	0.000
TOTAL CGH	0.000	0.000
TOTAL OTHER	0.760	0.836
TOTAL ANIMAL LAB	1.692	1.631
TOTAL INHOUSE	1.692	1.631
TOTAL INHOUSE RDTLE	0.932	0.795
ANIMAL OPERATING COST	0.123	0.128

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL		TOTAL PROF	NON- PROF
		PNS	PROF		
MILITARY	56	23	30	26	
CIVILIAN	26	1	6	20	
TOTAL	82	24	36	46	

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
4	9.325	5.696	7.330	22.351	0.631	0.800

...MISSION

CONDUCT RESEARCH IN ORAL DISEASE, MAXILLOFACIAL INJURIES, DENTAL MATERIALS, AND CLINICAL DENTISTRY, AND CONDUCT EDUCATION AND TRAINING PROGRAMS IN DENTISTRY.

...CURRENT IMPORTANT PROGRAMS
NONDEGRADABLE AND BIODEGRADABLE IMPLANT MATERIALS.
MERCURY TOXICITY IN DENTISTRY.
PRECIOUS METAL SUBSTITUTES.
ACCELERATION OF INHUMAN WOUND HEALING.
UTILIZATION OF NITINOL IN MEDICINE AND DENTISTRY.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
DETERMINE PHYSICAL, CHEMICAL AND MECHANICAL PROPERTIES OF METALS, ALLOYS, CERAMICS, PLASTICS, AND POLYMERS TO INCLUDE STRESS TESTING AND ELECTRON MICROSCOPIC EVALUATION. CONDUCT EXPERIMENTAL RESEARCH IN MICROBIOLOGY, BIOCHEMISTRY, IMMUNOLOGY, RADIATION MEDICINE, AND PHARMACOLOGY. TEST AND EVALUATE ANY FACET OF CLINICAL DENTISTRY, TO INCLUDE CLINICAL AND LABORATORY TECHNIQUES. PREPARE AND ANALYZE HISTOPATHOLOGIC SPECIMENS AND PERFORM DIFFERENTIAL DIAGNOSTIC EVALUATION ON THEM. PERFORM MOST FACETS OF ANIMAL SURGERY REQUIRED TO SUPPORT RESEARCH EFFORT.

INSTALLATION INSTITUTE OF SURGICAL RESEARCH

Ft. SAN JUAN, TX.

DA0007

C.O. COL BASIL A. PRUITT, JR.

TECH. DIR. DR. ARTHUR D. MASON

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		1974
	(ACTUAL)	(ACT. EST.)	
TOTAL PROFIT	1.635	1.510	
TOTAL PROCUREMENT	0.000	0.000	
TOTAL OEM	0.000	0.000	
TOTAL OTHER	1.511	1.608	
TOTAL ANNUAL LAB	3.146	3.118	
TOTAL INHOUSE	3.146	3.118	
TOTAL INHOUSE PROFIT	1.635	1.510	
ANNUAL OPERATING COST	0.120	0.135	

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTONOMIZED STRENGTH	TOTAL		TOTAL		NON- PROF
		PNS	PROF	PNS	PROF	
MILITARY	136	23	113	7		
CIVILIAN	80	3	79	61		
TOTAL	216	26	160	68		

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROP
1	29.424	0.900	19.000	49.224	1.968	1.317

MISSION

CONDUCT BOTH CLINICAL AND LABORATORY STUDIES IN TREATMENT OF THERMAL AND TRAUMATIC INJURIES. PROVIDE CARE FOR PATIENTS WITH THESE TYPES OF INJURIES. TRAIN OTHERS IN CARE OF SUCH PATIENTS.

CURRENT IMPORTANT PROGRAMS

STUDY OF POSTBURN HEMODYNAMIC AND PULMONARY CHANGES; CLINICAL AND LAB STUDIES OF INFECTION IN BURN PATIENTS; STUDY OF ACUTE RENAL FAILURE AND RENAL PHYSIOLOGY; STUDY OF POSTBURN HEMATOLOGY AND IMMUNOLOGY; METABOLIC CHANGES FOLLOWING BURNS AND EFFECTS OF HYPERALIMENTATION.

FUNCTIONS/EQUIPMENT/CAPABILITIES

OPERATES 60 BEDS FOR SERIOUSLY BURNED AND INJURED PATIENTS. PROVIDES CLINICAL LABORATORY SUPPORT AND RESEARCH CAPABILITIES IN THE FIELDS OF PATHOLOGY, INCLUDING USE OF ELECTRON MICROSCOPE, MICRONEUROLOGY, EXPERIMENTAL SURGERY, RENAL PHYSIOLOGY AND BIOCHEMISTRY. MAINTAINS AN ANIMAL COLONY, ELECTRONIC SHIP, SURGICAL LIBRARY, AND A METABOLIC CHAMBER.

INSTALLATION LAND WARFARE LABORATORY

ABERDEEN PROV GR, MD.

DA0001

C.G.O. COL R. CLARKSON

TECH. DIR. DR. R.D. SHELDON

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	7.227	4.093
TOTAL PROCUREMENT	0.000	0.000
TOTAL OEM	0.014	0.000
TOTAL OTHER	0.267	0.285
TOTAL ANNUAL LAB	7.508	4.378
TOTAL INHOUSE	4.778	3.925
TOTAL INHOUSE R&D	4.507	3.640
ANNUAL OPERATING COST	2.070	2.083

PERSONNEL	PERSONNEL DATA (END OF FY 1973)				
	AUTHORIZED STRENGTH	TOTAL PIDS	TOTAL PROF	NON- PROF	
MILITARY	16	0	11	5	
CIVILIAN	110	5	51	59	
TOTAL	126	5	62	64	

ACRES	SPACE AND PROPERTY.			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP EQUIP
BU	40.691	2.655	12.628	55.974	0.659	0.612

...MISSION
TO PROVIDE A CENTRALIZED, QUICK REACTION, MULTIDISCIPLINED RESEARCH AND DEVELOPMENT FACILITY FOR ACCOMPLISHING DEVELOPMENT OF SPECIALIZED MILITARY ITEMS AND FOR THE GENERATION OF NEW IDEAS FOR DEVELOPMENT OF SUCH MATERIAL

...CURRENT IMPORTANT PROGRAMS
TACTICAL CAMOUFLAGE AND CONCEALMENT, HARDWARE IN SUPPORT OF ARCTIC OPERATIONS, CONTROL OF CIVIL DISTURBANCES, TARGET DETECTION AND LOCATION, SURVIVAL AND IMPROVED COMBAT EFFECTIVENESS OF THE INDIVIDUAL SOLDIER
SURVIVAL AND IMPROVED COMBAT EFFECTIVENESS OF THE INDIVIDUAL

...FUNCTIONS/EQUIPMENT/CAPABILITIES
THE USALWL PROVIDES RESEARCH AND DEVELOPMENT ASSISTANCE TO SOLVE OTHER FIELD PROBLEMS IN ALL THEATERS AND IN ALL CLIMATES AND GEOGRAPHIES. THE LABORATORY CAPABILITY COVERS ALL MAJOR SCIENTIFIC AREAS. WITH 62 PROFESSIONAL PERSONNEL THE ORGANIZATION CONTAINS 7 SMALL WELL-EQUIPPED WORKING LABS IN COMMUNICATIONS/ELECTRONICS, MUNITIONS, MOBILITY, ENVIRONMENT AND SURVIVAL, APPLIED CHEMISTRY, APPLIED PHYSICS AND BIOLOGICAL SCIENCES. FURTHER, THE LABORATORY HAS INHOUSE DESIGN AND PROTOTYPE FABRICATION CAPABILITY IN METALS AND WOOD. THE ORGANIZATION IS ASSIGNED AN EIGHTY ACRE TEST FACILITY FOR DEVELOPMENTAL TESTING OF PERTINENT ITEMS AND IS LOCATED AT ABERDEEN PROVING GROUND, MARYLAND WHERE MANY MAJOR TESTING FACILITIES ARE READILY AVAILABLE.

INSTALLATION LETTERMAN ARMY INSTITUTE OF RESEARCH

PRESIDIO, S.F., CAL.

DA0020

C.G. COL WILLIAM A. AKERS

TECH. DIR. DR. JAMES R. NEVILLE

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	0.629	3.585
TOTAL PROCUREMENT	0.000	0.000
TOTAL OGM	0.070	0.034
TOTAL OTHER	12.505	2.264
TOTAL ANNUAL LAB	13.204	5.883
TOTAL INKHOUSE	1.509	5.483
TOTAL INKHOUSE RDT&E	0.629	3.585
ANNUAL UNRATING COST	0.261	1.191

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PIRS	TOTAL PROF	NON- PROF
MILITARY	91	22	59	37
CIVILIAN	22	3	12	10
TOTAL	113	25	66	47

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
3	46.917	8.900	0.000	55.817	0.467	2.760

...MISSION

CONDUCTS RESEARCH IN FIELDS OF MEDICINE AND DENTISTRY, GUIDES, COORDINATES, SUPPORTS RESEARCH PROJECTS OF STAFF MEMBERS OF LETTERMAN ARMY MEDICAL CENTER, SIMILARLY SUPPORTS RESEARCH IN HOSPITALS AT CLASS I INSTALLATIONS, MONITORS OTHER RESEARCH AS DIRECTED BY CG, USAMRIIC.

...CURRENT IMPORTANT PROGRAMS

ASSAULTS AGAINST HUMAN SKIN- WATER, HEAT, HUMIDITY, FRICTION, INSECTS, BACTERIA, FUNGUS ALONE AND IN COMBINATION, SURVEY OF MAXILLOFACIAL INJURIES, EARLY RESTORATION OF ORAL INTEGRITY, BONE REPAIR, BACTEREMIA, HEMORRHAGIC SHOCK, RAPID OXYGEN-HEMOGLOBIN DISSOCIATION DETERMINATION.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

LAB EQUIPPED FOR CUTANEOUS AND ORAL BACTERIOLOGY, BIOCHEMISTRY, PLUME GAS ANALYSIS, CHROMATOGRAPHY, ENZYMOLOGY, HEMATOLOGY, HISTOLOGY, PHYSICAL CHEMISTRY, IMMUNOLOGY, MYCOLOGY, NUCLEAR PHARMACY, ANIMAL PHYSIOLOGY, AND ISOTOPIC SCANNING, 30 MILITARY VOLUNTEERS ARE USED IN STUDIES OF DELAYED HYPERSENSITIVITY, FRICTION BLISTERS, FUNGAL SKIN INFECTIONS, MOSQUITO REPELLENTS, PROLONGED WARM WATER IMMERSION AND PRICKLY PEAR RASH, MAINTAIN BREEDING COLONY OF MOEN-CHIASE GUINEA PIGS FOR CUTANEOUS DELAYED HYPERSENSITIVITY, BONE GRAFTING, REPAIR, AND HEALING STUDIES EMPLOY ANGER SCINTILLATION CAMERA, PHYSICAL METHODS, AND HISTOLOGY. OXYHEMOGLOBIN DISSOCIATION VALUES OBTAINABLE IN 5 MINUTES USING 0.1 ML BLOOD AND NOW BEING EVALUATED IN MAN. LAIR TO ASSUME MISSION OF USAMRNL, DENVER, CO IN AUG 1973.

INSTALLATION MATERIALS AND MECHANICS RESEARCH CENTER WATERTOWN, MASS.

DA0027

DIR. DR. A.E. GORUM

C.O. AND DEPUTY DIR. LTC R.B. HENRY

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		1974
	FACTUAL	FACT + EST	
TOTAL R&D	18.999	19.025	
TOTAL PROCUREMENT	4.715	3.124	
TOTAL OEM	1.788	1.637	
TOTAL OTHER	0.000	0.000	
TOTAL ANNUAL LAB	25.502	23.786	
TOTAL ENHOUSE	14.861	12.036	
TOTAL ENHOUSE R&D	11.277	9.112	
ANNUAL OPERATING COST	3.771	3.890	

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL		NON- PROF
		PHDS	PROF	
MILITARY	9	7	13	6
CIVILIAN	557	64	217	380
TOTAL	606	71	230	386

ACRS	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
48	389.161	96.018	169.979	655.158	14.043	13.567

...MISSION
MANAGE AMC R&D STRUC MAT & MECH PROG AS LEAD LAB FOR MAT, SOLID MECH & TESTING TECHNOLOGY. CONDUCT TECHNOLOGICAL PROG IN MAT & MECH USFD IN ARMY MATERIEL. EXECUTES PROG IN OWN FACILITIES & BY ASSIGNMENT & FUND TRANSFER TO OTHER AMC LABS & CONTRACTORS.

...CURRENT IMPORTANT PROGRAMS
R&D PROGRAMS FOR IMPROVED MATERIALS - ARMOR
R&D PROGRAMS FOR IMPROVED MATERIAL - ABM HARDENING
R&D PROGRAMS FOR IMPROVED MATERIAL - AIRCRAFT
R&D PROGRAMS FOR IMPROVED MATERIAL - MATERIALS-PROCESSING & EVALUATION
R&D PROGRAMS FOR IMPROVED MATERIAL - ARMAMENTS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MANAGE AMC R&D PROG IN MATERIALS & MECHANICS & CONDUCT TECH PROGS IN MATERIALS SYSTEMS & MECHANICS DIRECTED TO ARMY MATERIEL. MANAGE DOD PROG AS EXECUTIVE AGENT-ARMOR TECHNOLOGY. MANAGE & CONDUCT INTEGRATED & DIRECTED BASIC & APPLIED R&D ON MATERIALS SUCH AS METALS, CERAMICS, ORGANIC & INORGANIC POLYMERS & COMPOSITES. MANAGE & CONDUCT THEORETICAL & APPLIED STUDIES IN MECH OF MATLS & SYSTEMS. IDENTIFY & INVEST BASIC FACTORS INVOLVED IN PROG & APPL OF NEW & IMPROVED MATLS. TECH MANAGE FIVE INFO ANAL CTR, ASST IN DESIGN & DEV OF PROTOTYPES. DEV METHODS FOR TEST & EVAL OF MATS & STRUCTURES. MANAGE ARMY PORTION DEFENSE STANDARDIZATION PROG. CONDUCT ENGINEERING STANDARDIZATION EFFORT. MANAGE AMC MATERIALS TESTING PROGRAM. CONDUCT PENA MANUFACTURING METHODS & TECHNOLOGY PROGRAMS & ADVISE COMMAND & INDUSTRY ON PROCESSING TECHNIQUES.

INSTALLATION MATERIEL TESTING DIRECTORATE

ABERDEEN PROV GR, MD.

DA0046

C.D. COL WALTER R. HARRIS

TECH. DIR. MR. H.A. BECHTEL

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (FACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	9.502	10.265
TOTAL PROCUREMENT	13.194	14.252
TOTAL O&M	0.709	0.766
TOTAL OTHER	0.037	0.024
TOTAL ANNUAL LAB	24.242	26.107
TOTAL INHOUSE	23.770	25.612
TOTAL INHOUSE RDT&E	9.439	10.190
ANNUAL OPERATING COST	12.664	13.872

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PROF	NON- PROF
MILITARY	77	0	45	32
CIVILIAN	912	1	162	750
TOTAL	989	1	207	782

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
24908	1220.000	424.000	905.000	2549.000	16.203	34.000

...MISSION

PLAN CDT & REPT TESTS OF WPNS WPNS SYS RAKTS & GM SYS FIRE CON SURV & TGT
ACQ EQUIP ITEMS OF AMMO & MUN COMPONENTS CDT VEHIS OTHER AUTO MAT GEN
EQUIP SUCH AS GENERATORS & AIR CONDENS PROC INSP STORE & ISSUE ARMPH PLATE
FOR ALL USAMC AMMO TEST PROV R&D ADVICE TO PROponent ACCYS & DEVELOPERS

...CURRENT IMPORTANT PROGRAMS

ENGR DESIGN TEST OF ARMOR SYS STUDY DATA FOR NEW WP
DEV SUIT TEST OF ARMORED RECON SCOUT VEH XM800
ENGR TEST OF HOW 155MM TOLED XM198 AND PROP CHIGS XM123 AND XM164
ENGR DESIGN TEST OF PROJ 105MM AFSDS-T XM735
DEV SUIT TEST OF FIRING PORT WPNS FOR MICV XM723

...FUNCTIONS/EQUIPMENT/CAPABILITIES

TEST AREA 24908 ACRES. RANGE TO LAND IMPACT 26000', RANGE TO WATER IMPACT
30000', M-41 MI OF AUTOM CRS INCL 27 SP ENGR TEST CRS & OBSTACLES VARIETY
OF ENVIR OF CNDL EQUIP SP CHAMBERS FOR SUBJECTING EQUIP TO DUST SALT
SPRAY OR SOLAR RADN ISOLATED VIBRATION TEST FAC WHICH PERMITS SHAKING
EXPLO EQUIP SIMULTANEOUSLY WITH TEMP CONDITIONING FAC FOR CONTROLLED
TESTS OF ELEC CON & GUIDANCE EQUIP FREQU SOURCE WHICH PERMITS TESTING ALL
TYPES OF MAT IN PRESENCE OF A HIGH INTENSITY ELEC MAGNETIC RADN SP FAC
FOR TEST OF ARMOR PLATE SP VEH & TGT EQUIP IS AVAIL FOR OBSERVATIONS
DURING RAPID FIRE AS IS A RAKT TRACK FOR CONTROLLED TERMINAL BALLISTIC
TESTS FAC AVAIL FOR TESTS OF SP ELECTRONIC & FIRE CIN EQUIP & RELATED
SYS & CCOMPONENTS

INSTALLATION MEDICAL BIOMATERIALS R&D LABORATORY

FORT DILETRECK, MD.

DA0068

C.O. COL ORLYN C. WESTERFELD

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	1.440	2.199
TOTAL PROCUREMENT	0.000	0.000
TOTAL G&M	0.000	0.000
TOTAL OTHER	0.299	0.349
TOTAL ANNUAL LAB	1.739	2.548
TOTAL INHOUSE	1.739	2.548
TOTAL INHOUSE R&D	1.440	2.199
ANNUAL OPERATING COST	0.495	0.734

PERSONNEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)		NON- PROF
		TOTAL PHDS	TOTAL PROF	
MILITARY	27	3	17	10
CIVILIAN	64	3	14	50
TOTAL	91	6	31	60

ACRES	SPACE AND PROPERTY (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	EQUIP
2	27.000	22.000	37.000	86.000	2.579	0.967

...MISSION
TO CONDUCT RESEARCH AND DEVELOPMENT OF BIOMATERIALS AND MILITARY MEDICAL EQUIPMENT ON A CONTINUING BASIS FOR DEPARTMENT OF THE ARMY AND ON AN AS REQUIRED BASIS FOR THE NAVY AND AIR FORCE.

...CURRENT IMPORTANT PROGRAMS
COMPUTER ANALYSIS OF A MULTI-DEGREE OF FREEDOM ARM, DEVELOPMENT OF NEW CUSHIONING MATERIALS TO PREVENT DECUBITIS ULCERS, SYNTHESIS OF NEW ARTIFICIAL TENDON MATERIALS, DEVELOPMENT OF A PROTOTYPE ARM AND HAND WASHER.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
LAB CAPABLE OF DESIGNING AND DEVELOPING AND FABRICATING PROTOTYPE FIELD MEDICAL EQUIPMENT, DESIGNING, DEVELOPING AND FABRICATING PROTOTYPE AND CUSTOM-FITTED PROSTHETIC AND ORTHOTIC DEVICES AND RELATED CAVIOL UNITS, DEVELOPING, AND CONDUCTING IN VIVO AND IN VITRO STUDIES OF BIOMATERIALS, ELECTRON MICROSCOPY, AND PERFORMING CHEMICAL AND BIOLOGICAL ANALYSIS OF THE ENVIRONMENT.

INSTALLATION MEDICAL RESEARCH AND NUTRITION LAB, FGH DENVER, CO.

DA0011

C.O. COL JOHN E. CANHAM

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	2.652	0.000
TOTAL PROCUREMENT	0.000	0.000
TOTAL CSM	0.000	0.000
TOTAL OTHER	1.122	0.000
TOTAL ANNUAL LAB	3.774	0.000
TOTAL INHOUSE	3.774	0.000
TOTAL INHOUSE RDT&E	2.652	0.000
ANNUAL OPERATING COST	0.538	0.000

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PIDS	TOTAL PROF	NON- PROF
MILITARY	110	24	65	45
CIVILIAN	90	9	33	57
TOTAL	200	33	98	102

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)			
	LAB	ADMIN	OTHER	TOTAL	REAL PROP EQUIP
2	77.677	5.138	21.977	104.792	5.079 1.418

...MISSION

DETERMINE THE ADEQUACY OF TROOPS DIET IN ALL ENVIRONMENTS AND RECOMMEND NUTRITIONAL MEASURES FOR OPTIMUM PERFORMANCE. CONDUCT BASIC/APPLIED RESEARCH ON MED/SURG AND NUTRITIONAL PROBLEMS; COMPUTER TECHNIQUES IN BIO-MED AREAS; FOOD HYGIENE & PHYSIOLOGY OF EXERCISE & BODY COMPOSITION.

...CURRENT IMPORTANT PROGRAMS

NUTRITIONAL AND METABOLIC ADAPTATION AND INTERRELATIONSHIPS. NUTRITIONAL AND PHYSIOLOGICAL FACTORS INFLUENCING MILITARY DOG PERFORMANCE. BIOCHEMICAL FACTORS INFLUENCING PHYSIOLOGICAL FUNCTIONING. APPLIED NUTRITION STUDIES OF MILITARY AND POW POPULATION. NUTRITIONAL REQUIREMENTS OF MILITARY PERSONNEL.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

HUMAN METABOLIC WARD WITH TEMP AND HUMID CONTROL RH, GERM-FREE ANIMALS, AGNOSTIC PHYSIO-PERF, ELECTRON MICROSCOPY, HIGH ALT LAB AT PIKES PEAK, ENVIRON TEST CHAMBER, RCA 301-355 ADPS, AUTO ANALYZERS AND RECORDER INCLUDING AUTO BETA AND GAMMA COUNTERS, SHADOW SHIELD WHOLE BODY COUNTER, AND MASS SPECTROMETER. RSCH INCLUDES NUTR SURVEYS AND CATION TESTING. BLDNG CAPT RSCH, INFLUENCE OF HIGH TERRESTRIAL ALT ON PHYSIO-PHYSIO-PERF, BODY COMPOSITION, METABOLISM AND MODIFYING FACTORS, BASIC/APPLIED STUDIES OF TRACE MINERAL METABOLISM, NUTRIENT RMR AND INTERRELATIONSHIP, METABOLIC RESPONSE OF MAN TO NUTR AND DISEASE, EXPER SURG, COMPARATIVE PATHOLOGY OF STRESS IN ENVIRON AND OF NUTR, PHYSIO AND BIOCHEM STUDIES OF MUSCLE METABOLISM, EXER AND FATIGUE IN MAN AND MILITARY DOG.

INSTALLATION MEDICAL RESEARCH INST OF INFECTIOUS DISEASES FORT DetRICK, MD

040019

C.O. COL. JOSEPH F. METZGER

TECH. DIR. DR. WILLIAM R. REISEL

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL ROTC	6.556	7.150
TOTAL PROCUREMENT	0.000	0.000
TOTAL OGM	0.420	0.446
TOTAL OTHER	2.861	3.256
TOTAL ANNUAL LAB	9.837	10.852
TOTAL INHOUSE	9.837	10.852
TOTAL INHOUSE ROTC	6.556	7.150
ANNUAL OPERATING COST	2.339	2.646

PERSONNEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)			NON- PROF
		TOTAL	PROF	PROF	
MILITARY	358	57	62	296	
CIVILIAN	229	23	43	186	
TOTAL	587	80	105	482	

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP
57	93.217	13.819	198.731	305.767	17.824	3.213

...MISSION
STUDIES PATHOGENESIS, DIAGNOSIS, PROPHYLAXIS, TREATMENT, EPIDEMIOLOGY
OF INFECTIOUS DISEASES, EMPHASIZING PROBLEMS OF MEDICAL DEFENSE AGAINST
BIO AGENTS, NATURALLY OCCUR INFECTIONS OF PECULIAR MIL IMPORTANCE AND
MICROORGANISMS WHICH REQUIRE SPECIAL CONTAINMENT FACILITIES..

...CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF NEW VACCINES AND TOXOIDS.
CREATION OF PHYSIOLOGY LABORATORY TO STUDY INFECTIOUS DISEASES.
DEVELOPMENT OF IMPROVED METHODS FOR DISEASE MANAGEMENT.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
TWO LARGE BLOCS PROVIDE ABOUT 300,000 SQ FT OF SPACE AND CONTAIN
23 MODERN LABORATORY SUITES WHICH REPRESENT LATEST IN FUNCTIONAL
CONCEPTS, LAB DESIGN AND SAFETY. A COMPLEX PROGRAM OF MED RESEARCH
IS CONDUCTED AND INCLUDES IMMUNOLOGY, PATHOLOGY, PHYSIOLOGY, SEROLOGY,
BIOCHEMISTRY, BIOPHYSICS, MOLECULAR BIOLOGY, AND TISSUE CULTURE. SPECIAL
CAPABILITIES INCLUDE ELECTRON MICROSCOPY, ELECTRON SPIN RESONANCE AND
RADICAL ASSAY LABORATORIES, A VACCINE PRODUCTION SUITE, HOSPITAL
FACILITIES FOR BED PATIENTS AND FOR RESEARCH STUDIES WITH VOLUNTEERS.
UNAMPLIFIED RESEARCH IS SUPPORTED BY 2 COMPUTERS AND AN ANIMAL FARM.

INSTALLATION MEDICAL RESEARCH LABORATORY

FT. KNOX, KY.

UAC014

C.O. COL FRANK R. CAMP, JR.

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	1.749	1.333
TOTAL PROCUREMENT	0.000	0.000
TOTAL OEM	0.202	0.259
TOTAL OTHER	0.744	0.716
TOTAL ANNUAL LAB	2.695	2.299
TOTAL ENHANCE	2.695	2.299
TOTAL ENHANCE R&D	1.749	1.323
ANNUAL OPERATING COST	1.014	0.881

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL	NON- PROF
	AUTHORIZED STRENGTH	AL US		
MILITARY	115	11	74	41
CIVILIAN	132	9	23	109
TOTAL	247	20	97	150

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)		TOTAL	REAL PROP	EQUIP
LAB	ADMIN	OTHER				
20	48.025	5.368	34.734	128.127	0.290	2.693

...MISSION

CONDUCT RESEARCH IN SENSORY PSYCHOPHYSIOLOGY, BIOLOGIC EFFECTS IN LASER RADIATION, AND MILITARY BLOOD BANKING. OPERATE BLOOD DONOR CENTER AND CONDUCT TRAINING PROGRAM IN IMMUNOHEMATOLOGY.

...CURRENT IMPORTANT PROGRAMS

MILITARY BLOOD BANKING, METHODOLOGY AND EQUIPMENT.
MILITARY BLOOD BANKING, EVALUATION OF CHANGES IN BLOOD DURING STORAGE.
MILITARY PERFORMANCE, PSYCHOPHYSIOLOGY OF VISION.
MILITARY PERFORMANCE, TRAUMATIC ORIGINS OF REAPING LOSS.
LASER EFFECTS UPON VISUAL PERFORMANCE.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PROCESS 500 UNITS OF WHOLE BLOOD AND COMPONENTS PER WEEK. PERFORM AUTOMATED PLATELET GROUPING FOR NEW INDUCTEES. PROVIDE A LARGE SUPPLY OF FROZEN PLATELETS AND COMPONENTS TO DOD HOSPITALS. PERFORM CERTAIN SPECIALIZED AUDIO TESTS. HOLDING CAPABILITY FOR UP TO 100 PATIENTS. CONDUCT RESEARCH IN BIOLOGIC EFFECTS OF LASER RADIATION. CONDUCT RESEARCH IN MILITARY BLOOD BANKING. CONDUCT TRAINING PROGRAM IN IMMUNOHEMATOLOGY. CONDUCT ENLISTED BLOOD BANKING COURSE 311-F1.

INSTALLATION MEDICAL RESEARCH UNIT

KUALA LUMPUR MALAYSIA

D40018

C.O. CO' CHARLES R. WEBB

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDTCE	0.274	0.000
TOTAL PROCUREMENT	0.000	0.000
TOTAL CCM	0.000	0.000
TOTAL OTHER	0.005	0.000
TOTAL ANIMAL LAB	0.359	0.000
 TOTAL INHOUSE	0.359	0.000
TOTAL INHOUSE RDTCE	0.274	0.000
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL PMOF	NON- PMOF
	AUTHORIZED STRENGTH	TOTAL PIOS		
MILITARY	8	5	7	1
CIVILIAN	0	0	0	0
TOTAL	8	5	7	1

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PREP EQUIP
15	7,000	0,900	0,000	7,900	0,100	0,222

...MISSION
TO FIND A DRUG OR NATURAL FACTOR WHICH BLOCKS ENDOTOXIC FEVER.
TO STUDY INFECTIOUS DISEASES OF POTENTIAL MILITARY IMPORTANCE IN
EQUATORIAL ASIA.

...CURRENT IMPORTANT PROGRAMS
STUDY SCRIB TYPHUS TRANSMISSION IN VIRGIN FORESTS.
EVALUATE SUBHUMAN PRIMATES FOR HUMAN MALARIA HOSTS.
DETERMINE TRANSDRUG TRANSMISSION RATE OF RICKETTSIA.
STUDY OF DIARRHEA IN ABORIGINAL FOREST DWELLERS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONTINUED RESEARCH EFFORTS ALONG PRESENT LINES WITHIN THE SCOPE OF
RESEARCH ACTIVITIES, TO PROVIDE DIAGNOSTIC LABORATORY CONSULTATION FOR
MALAYSIAN CIVILIAN AND MILITARY MEDICAL SERVICES AND FOR COMMONWEALTH
MILITARY MEDICAL SERVICES. LABORATORY SPACE AND ANIMAL-HOLDING
FACILITIES ARE PROVIDED BY THE INSTITUTE FOR MEDICAL RESEARCH,
KUALA LUMPUR, MALAYSIA.

INSTALLATION MEDICAL RESEARCH UNIT

BAIRNS HEIGHTS, C.Z.

DA0017

C.G.C. COL. RYCE C. WALTON

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	0.140	0.000
TOTAL PROCUREMENT	0.000	0.000
TOTAL CGM	0.000	0.000
TOTAL OTHER	0.109	0.000
TOTAL ANNUAL LAB	0.249	0.000
TOTAL INHOUSE	0.249	0.000
TOTAL INHOUSE RDT&E	0.140	0.000
ANNUAL OPERATING COST	0.090	0.000

PERSONNEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)		TOTAL PROF	NON- PROF
		TOTAL	PHDS		
MILITARY	10	2	5	5	
CIVILIAN	11	0	0	11	
TOTAL	21	2	5	16	

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	EQUIP
0	5.000	0.600	0.000	5.600	0.100	0.061

MISSION
IN CONJUNCTION WITH OTHER US GOVT AGENCIES, CONDUCTS RESEARCH ON MEDICAL
AND ENVIRONMENTAL PROBLEMS OF MILITARY IMPORTANCE IN CENTRAL AMERICA,
SOUTH AMERICA AND PANAMA.

CURRENT IMPORTANT PROGRAMS
PREVALENCE AND DISTRIBUTION OF PARASITIC DISEASE IN LATIN AMERICA.
PATHOGENESIS OF PARASITIC INFECTIONS.
BIOLOGY OF PHLEBOTOMUS FLIES.
EPIDEMIOLOGY AND IMMUNOLOGY OF TROPICAL VIRUSES.

FUNCTIONS/EQUIPMENT/CAPABILITIES
DIRECT AND INDIRECT ISOLATION AND IDENTIFICATION OF PARASITIC ORGANISMS
AND THEIR VECTORS IN CENTRAL AND SOUTH AMERICA. LABORATORY SPACE
ADeQUATE FOR THE SCIENTIFIC DISCIPLINES OF ENTOMOLOGY, PARASITOLOGY,
PATHOLOGY AND VIROLOGY. SPECIAL EQUIPMENT AND FACILITIES TO SUPPORT
THESE DISCIPLINES INCLUDE FLUORESCENT MICROSCOPE, AUTO-TECHNICIAN,
CRYOSTAT, PHOTOMICROGRAPHY, LABORATORY ANIMAL QUARTERS, TISSUE
CULTURE LINES, LIQUID NITROGEN PLANT AND ACCESS TO DATA PROCESSING
EQUIPMENT.

040033

C.O. MC EDWIN L. O'NEILLY DIR. DR. JOHN L. McDANIEL

HEISTONE ARSENAL, AL.

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	FEDERAL BUDGET FOR FISCAL YEAR THREE		
	1973 (ACTUAL)	1974 (ACT + EST)	1975 (ACT + EST)
TOTAL ROTCE	91.595	125.070	
TOTAL PROCUREMENT	7.274	3.904	
TOTAL OEM	3.889	4.674	
TOTAL OTHER	0.551	0.712	
TOTAL ANNUAL LAB	103.309	134.368	
TOTAL INHOUSE	44.521	52.716	
TOTAL INHOUSE ROTCE	33.465	44.925	
ANNUAL OPERATING COST	8.579	9.000	

PERSONNEL	PERSONNEL DATA (END OF FY 1973)			NUM- FRIN
	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PROF	
MILITARY	40	7	33	7
CIVILIAN	1226	66	747	479
TOTAL	1266	73	780	486

ACRES	SPACE AND PROPERTY			COST (MILLION \$)				
	SPACE (THOUSANDS OF SQUARE FEET)	LAH	ADMIN		OTHER	TOTAL	REAL	FRCP
11000	1168,000	262,000	408,000	1838,000	25,278	36,794	1,000	1,000

...MISSION
PLAN AND CONDUCT RESEARCH, EXPLORATORY, AND ADVANCED DEVELOMT FOR ASSIGNED MATERIEL. EXECUTE MATERIEL DEV PROGS NOT SELECTED FOR PROJ MGMT. PROVIDE SCIENTIFIC AND ENGR SPT TO OTHER AMC OR DOD ELEMENTS WITH PROJ/SYS MGMT. RESPONSIBILITY. DESIGN, DEV AND FABRICATE PROTOTYPE NSL SYS COMPONENTS.

...CUMENT IMPORTANT PROGRAMS
LASER TECHNOLOGY AND APPLICATIONS AND ADVANCED LASER DEVELOPMENT
TERMINAL IRMING
PRECISION LASER DESIGNATION PROGRAM
FREE FLIGHT ROCKET SYSTEMS
ADVANCEMENT OF MISSILE TECHNOLOGY THRU SIMULATION

FUNCTIONS/EQUIPMENT/CAPABILITIES
PERFORM FEASIBILITY STUDIES-PROPOSALS FOR FUTURE WEAPONS SYST,OPEN ARMY
INERTIAL GUIDRKIT PH/W CTRS-PROVIDE SIMULATION SPT THRU ADV FAC FOR EXPL
MATURE, ENGR DEV PRUGS, LEAD AMG LAB FOR GCC/TERM LASER TECH FACIL-ADVAN.
SIN FAC W/ADP & 3 SIMULATORS INFRARED, ELECTRO-OPTICAL/CRF/LASER DESIGNATOR
LAB, ANECHOIC CHAMBER, G1400E UNIV TESTFR, THERMAL ANALYZER, CLEAR RM FAC,
PROTOTYPE FABRICATION FAC, III AVG PHR ELEC LASER (HAPPET), CHEM LASER FAC,
X-RAY DIFFRACTOMETER AND SPECTROGRAPH, STATIC TEST FAC, PLASMA JET FAC,
FLIGHT AND TRACK TEST FAC, ENVIRONMENTAL TEST LAB, ELECTROMAGNETIC EFFECTS
TEST FAC, LASER TEST FAC, HEAT TREATING FAC FOR MATERIALS TESTING, AIRBORNE
SENSOR MEASUREMENT PLATFORM, PROPELLANT EVALUATION & ANALYSIS FAC, POLYMER
SYNTHESIS APPARATUS, UNITHINN VACUUM METALLOGRAPH, RADIATION HAVING MISSILE
TEST BED FACILITY, FLUIDIC DESIGN FACILITY.

INSTALLATION MOBILITY EQUIPMENT R&D CENTER

FT. BELVOIR, VA.

DA0014

C.O. COL TENNO R. HUKKALA

ATG. TECH. DIR. MR. T. G. KIRKLAND

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D&E	49.710	52.405
TOTAL PROCUREMENT	42.822	37.600
TOTAL OEM	16.528	7.626
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	109.060	97.631
TOTAL INHOUSE	26.042	27.326
TOTAL INHOUSE R&D&E	19.000	20.772
ANNUAL OPERATING COST	6.347	6.974

PERSONNEL	PERSONNEL DATA (END OF FY 1973)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	71	4	79	8
CIVILIAN	1494	22	501	993
TOTAL	1565	26	580	1001

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1060	666.922	132.572	193.600	993.094	19.134	78.082

MISSION
BASIC AND APPLIED RESEARCH, ADVANCED AND ENGINEERING DEVELOPMENT, PRODUCT AND PRODUCTION ENGINEERING, STANDARDIZATION OF MATERIEL, METHODS AND TECHNIQUE, PROCUREMENT OF RESEARCH, DEVELOPMENT AND ENGINEERING SERVICES, EQUIPMENT AND SUPPLIES, MATERIEL TEST AND EVALUATION, AIR POLLUTION, CONT.

CURRENT IMPORTANT PROGRAMS
ELECTRIC POWER GENERATION
MINE DETECTION/NEUTRALIZATION
CAMOUFLAGE
DARPLERS
FUELS, LUBS, COATINGS AND CHEMICALS AND FUEL HANDLING EQUIPMENT

FUNCTIONS/EQUIPMENT/CAPABILITIES
DCS AND LABS WITH SUPPORT DATA PROCESSING AND INSTRUMENTATION SVCSE SHOPS, TEST COURSES AND TEST LANES, EQUIP AND CAPABILITIES INCL SEISMIC SIMULATOR, MAGNETIC, OPTICS AND INFRARED CHAMBERS, RADIATION, MECHANICAL, CIVIL AND SOILS LABS, ELECTRONIC LABS AND ANECHOIC CHAMBERS, SHOT PULSE NEODYMIUM GLASS LASERS, SEVERAL TYPES OF SPECTROPHOTOMETERS AND EPISSO-METER, IMAGING RADAR, METEOROLOGICAL TRANSMISSIONS, REFLECTOMETER, STEREOFOSCOPES, VEHICLE AUTOMATIC CLASS AND IDENT SIMULATORS, DATA COLLECTION, VHF/RADIO FREQUENCY ANECHOIC CHAMBERS, IN-LANE TEST FACILITY, SENSOR TEST FACILITY, CYCLOPES, TEST FACILITY, BATTERY TEST, FACE/SURFACE CHEM, RSC, FACE/SUPERCONDUCT, HIGH FILM FACE, HIGH FIELD TEST, FACE/COMBUSTION LAB, PAINT FORMULATION FACE, SIMULATED SVC BRAKE TEST UNIT, CLIMATIC TEST CHAMBERS, RAIL IMPACT TEST, FULL SPHERICAL BLAST CHAMBER, SHOCK TUBE SIMULATING BLAST EFFECTS

INSTALLATION NATICK LABORATORIES

NATICK, MASS.

DA0029

C.O. COL HARRY CORKILL

TECH. DIR. DR. DALE H. SIELING

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 ACTUAL	1974 ACT & EST
TOTAL R&D	22.036	16.446
TOTAL PROCUREMENT	1.283	0.350
TOTAL OEM	9.757	8.332
TOTAL OTHER	1.656	1.600
TOTAL ANNUAL LAB	35.532	26.726
TOTAL INHOUSE	26.072	25.297
TOTAL INHOUSE R&D	15.632	15.561
ANNUAL OPERATING COST	6.004	5.329

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF
MILITARY	126	17	54
CIVILIAN	1183	92	456
TOTAL	1309	109	510

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PPCP
3054	525.000	65.900	274.600	865.500	39.024	13.655

MISSION
ACCOM ASG R&D IN THE PHYS AND BIOL SCI AND ENG TO MEET MIL R&D IN THE COMMUNITY AREAS OF TEX CLD BODY ARMOR ORG HATLS INSECT AND FUNG SURS CNTRS FOOD SVC EQUIP FLD SPT EQUIP TENT AND EQUIP AND AIR DEL EQUIP. IN DESIG CMNDY AREAS PROV TECH AND ENG SPT IN CONNEC W/ACCOM OF AE AND STD.

...CURRENT IMPORTANT PROGRAMS

POLLUTION ABATEMENT STUDIES
ANAL MIL FOOD SVC SYS TO EST MODERN METH OF DETERMINING DAILY FCCD ALLOW
PERSONNEL ARMOR PROGRAM
FLEXIBLE PACKAGING SYSTEM FOR HEAT PROCESSED FOODS
WHOLESAFENESS OF RADAPPERTIZED BEEF

...FUNCTIONS/EQUIPMENT/CAPABILITIES

COBALT 60 IRRAD FACILITY DESIGNED FOR MAX FLEXIBILITY IN FOOD PROCESSING
BACTERIOLOGY LAB EQUIP FOR INVESTIGATIONS OF PATHOGENIC MICROORGANISMS
FLAME PROTECTION LAB AND FACILITY INCLUDING AN OUTDOOR FLAME PIT
HIGH RESOLUTION MASS SPECTROMETER FOR ANALYSIS OF VOLATILE COMPOUNDS
FOOD PROCESSING FAC FIR CONTROLLED PREPROCESSING AND PROC BY SEV TECHNIQ
LAB SUBSONIC WIND TUNNEL CAPABLE OF VELOCITIES UP TO 110 FEET PER SEC
HEAT TRANSFER LAB TO STUDY HEAT AND MASS TRANSPORT CHAR OF FABRICS
ELECTRON LINEAR ACCELERATOR DESIGNED FOR HIGH POWER OUTPUT IN FCCD PROV
DROP TEST FAC CONS OF 40 TON CAPACITY TRACKED CRANE AND A 50 FT BOOM
DYING AND FINISHING LAB FOR CONDUCTING STUDIES OF TEXTILES
FETROTRON MACHINE USED AS A RADIA SOURCE FOR PULSE RADIOLYSIS STUDIES
RAIN ROOM DESIGNED TO DUPLICATE RAINFALL CORRESPONDING TO NATURAL RAIN

INSTALLATION NIGHT VISION LABORATORY

FT. BELVOIR, VA.

DA0066

ATG. DIR., MR. DONALD J. LOUFT

ATG. DEP. DIR., MR. JOHN JOHNSON

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	38.199	36.000
TOTAL PROCUREMENT	0.000	0.000
TOTAL CGM	0.000	0.000
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	38.199	36.000
TOTAL INHOUSE	16.007	16.000
TOTAL INHOUSE R&D	16.007	16.000
ANNUAL OPERATING COST	1.567	1.600

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	51	0	28	23
CIVILIAN	313	30	195	201
TOTAL	467	30	223	224

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	EQUIP
15	73.261	3.521	67.205	143.987	43.961	37.402

MISSION
NVLS RESPONSIBLE FOR PROVIDING THE ARMY WITH A NIGHT-VISION CAPABILITY. WITH THE GOAL OF CARRYING OUT NIGHT OPSNS WITH DAYLIGHT EFFICIENCY. THE SYS DEV PROG IS DEPENDENT ON AN NV TECHNOLOGY BASE CONSISTING OF THE DISCIPLINES OF IMAGE INTENS, FAR IR, RAD SOURCES AND VISIONICS.

CURRENT IMPORTANT PROGRAMS
THERMAL VIEWER FOR UNIVERSAL APPLICATIONS
COMMON TOW/DRAGON NIGHT SIGHT
TURRET INTEGRATED NIGHT THERMAL SIGHT
SECOND GENERATION IMAGE INTENSIFIER SYSTEMS
IMAGE INTENSIFIER TECHNOLOGY

FUNCTIONS/EQUIPMENT/CAPABILITIES
NVL HAS THE FOLLOWING FACILITIES LISTED IN AMCP 7G-1-PHOTODEPOSITION RSCH, ELECTRO OPTICAL IMAGE TURF, SOLID STATE IMAGE INTENSIFICATION, VISIONICS RSCH, SURFACE RSCH, DETECTION FAIR, SPECTROPHOTOMETRIC, LIQUID CRYSTAL RSCH, OPTICAL THIN FILM RSCH, DIRECT VIEW SYS DEV, MODULATION TRF FUNCTION TEST, REMOTE VIEW SYS DEV, FIR SYS DEV, LASER RSCH, PLASMA ARC LAMP RSCH, PHOTOMETRIC AND ELECTRONIC TEST, TUBE EVAL, DOD IMAGE EVAL, NIGHT VISION EQUIP FIELD TEST, EQUIP TEST RANGE COMPLEX, ELECTRICAL OPTICS, HIGH CHANNEL RSCH DEV, IMAGE INTNS RD TUBE, IMAGE INTENS PWR SUPPLY, OPTICAL ANALYSIS, LOW LIGHT LEVEL OPTICAL EVAL, MIRROUNITSOMETER (ISODENSITRACH), OPTICAL TRF FUNCTION, SEMICONDUCTOR LASER RSCH, SEMICONDUCTOR LASER D.V, LOW LIGHT LEVEL TV TEST, HIGH VOLTAGE GATING MICROFELCROONICS FABRIC/TION.

INSTALLATION: PICATINNY ARSENAL LABORATORIES

DOVER, N.J.

DAD036

C.G. CCL J.L. HOLMAN, JR.

TECH. DIR. MR. H.W. PAINTER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	80.300	80.300
TOTAL PROCUREMENT	21.700	6.300
TOTAL CCM	0.400	0.300
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	110.400	94.900
TOTAL INHOUSE	59.400	59.600
TOTAL INHOUSE RDT&E	42.300	48.600
ANNUAL OPERATING COST	6.200	6.400

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	71	0	53	18
CIVILIAN	2403	60	1075	1328
TOTAL	2474	60	1128	1346

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP EQUIP
5880	603,550	674,545	2568,855	3846,950	74,247	54,240

...MISSION
CEN FOR LIFE CYCLE FUNC FOR BASIC AND APPLIED RSCH THRU DEVMT AND ENGRG
OF NUC AND CONVL MUNIS SUCH AS MINES, GRENS, RKT AND MSL WHDOS, PROJS, FUZES,
EXPLOS, PYRO, PROP, MATLS, PHYS AND ENGRG SCIENCE, DIGITAL ANALOG COMPUTING,
PROCS ALL NUC AND ASG CONVL MUNIS. OPS ARMY EODC, DOD PLASTEC CENTER.

...CURRENT IMPORTANT PROGRAMS
EXPLOSIVES AND PYROTECHNICS RESEARCH
GUN PROPELLANT RESEARCH
SHORT RANGE MAN PORTABLE ASSAULT WEAPON TECHNOLOGY
57MM HITVAL PROGRAM
FLUIDIC SAFING AND ARMING SYSTEM FOR SURFACE TO SURFACE MISSILE APPL

...FUNCTIONS/EQUIPMENT/CAPABILITIES
NUC WPKS, PROTOTYPE FAB AND ASSY, AND EXPLOS AND PROP PLT PLANTS PROV
COMPL INTRGED FAC FOR ASSY, INSP AND TEST OF AK AND CONVL MUNIS AND COMPS
AND THE MFG AND PROCING OF X EXPLOS AND PROP COMP. THE EXPLOS, PYRO,
PROP, MATLS AND QA LABS HAVE UNUSUAL EQUIP FOR RSCH, RELIABILITY AND QA
SUCH AS BEATRON, DYNAMITRON, HIGH SPEED PHOTO AND SHOCK LOAD FAC, HIGH
ALT TEST CHAMBERS, ELECTROMAGNETIC RADIATION INSP ETC. THE DEVMT AND
ENVIRONMENTAL TEST AND EVAL FAC HAVE MAJOR CAPBLTY AS STATIC AND DYNAMIC
TEST RGS, DROP TOWERS, DUD RECOVERY AND DISASSEMBLY, RF VULNERABILITY,
COMPL ENVIRONMENTAL SIM, TARGET EFFS ETC. OTHER EQUIP INCL VIBRATORS
FOR LOADS TO 2000 LB, STATIC RKV TEST RG, 2540 TON HYDROSTATIC PRESS,
CHPT TAPE CON MFG EQUIP, VARIETY OF FUZE EVAL EQUIP, CLESED CIRCUIT TV,
HIGH ACCEL SLED TRACK.

INSTALLATION RED TECHNICAL SUPPORT ACTIVITY

FT. MONMOUTH, N.J.

DA0065

DIR. MR. EDWARD J. FISTER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL ROTGE	9.882	10.035
TOTAL PROCUREMENT	0.758	0.864
TOTAL CGN	0.030	0.130
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	10.670	11.029
TOTAL INHOUSE	10.385	11.017
TOTAL INHOUSE ROTGE	9.652	10.023
ANNUAL UPGRADING COST	3.993	4.307

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PIROS	TOTAL PROF	NON- PROF
MILITARY	1	0	0	1
CIVILIAN	660	0	109	551
TOTAL	661	0	109	552

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL FREQ	EQUIP
136	50.920	8.600	227.830	286.950	8.400	7.500

MISSION

VULNERABILITY ANALYSIS
ANTENNA PASTS AND MECHANICAL STRUCTURES
VEHICULAR MARINE CRAFT AND SHELTER INSTALLATIONS
COMPUTER AIDED DESIGN TECHNIQUES

CURRENT IMPORTANT PROGRAMS

MECHANICAL ENGINEERING - AIRBORNE AND GROUND EQUIPMENT
VULNERABILITY ANALYSIS
ENVIRONMENTAL CRITERIA AND TEST FACILITIES
VEHICULAR MARINE CRAFT AND SHELTER INSTALLATIONS
COMPUTER AIDED DESIGN ENGINEERING AND MANUFACTURING

FUNCTIONS/EQUIPMENT/CAPABILITIES

ELECTROMAGNETIC COMPATIBILITY FOR RFI
ENVIRONMENTAL CONTROL SYSTEMS
ENVIRONMENTAL TEST FACILITIES
MATHEMATICAL COMPUTATIONS AND STATISTICS
EQUIPMENT DESIGN AND DRAFTING
SPECIFICATION ENGINEERING
AIRCRAFT VIBRATION MEASUREMENTS
COMPUTER AIDED DESIGN FABRICATION - ALL CRAFTS
METAL LOGIC
TEST AND MEASURING EQUIPMENT - OPERATION AND REPAIRS

INSTALLATION RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI WASHINGTON, D.C.

D40002

C.O. COL R.A. BOOTH

TECH. DIR. DR. J.E. WILANER

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT & EST)
TOTAL RDT&E	5.742	13.777
TOTAL PROCUREMENT	0.000	0.000
TOTAL DEM	0.000	0.000
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	5.742	13.777
TOTAL INHOUSE	2.805	5.402
TOTAL INHOUSE RDT&E	2.805	5.402
ANNUAL OPERATING COST	0.707	0.850

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL PROF	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS		
MILITARY	28	2	23	5
CIVILIAN	144	48	88	56
TOTAL	172	50	111	61

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	29.920	4.318	9.248	43.455	0.042	1.367

...MISSION
RSCH AND DEV PRGMS IN DEPT AND SOC SCI FOR DEPT ARMY IN IND TNG AND PERF
AND IN ORG SYS. PRGMS (INCL RSCH) TO IMPRV TRNG AND TO INCR CAP OF SEL TO
RSVLE PENS-INTREPNS PRGMS, TO IMPRV DSTR MNDPR, ENHANCE EFF OF GRPS IN
CMD-CNTRL, IMPRV PERF OF GRPS IN MIL SYS THRU ORG DEV, IMPRV UNIT LDRSHP

...CURRENT IMPORTANT PROGRAMS
RSCH IN SEL BRANCH OFF BASIC CRSSES TO ASSESS TRAIN AND DEV LDRSHP BEHAV
DETERMINE METHODS TO IMPROVE TNG OF ACTIVE ARMY AND RES CCP UNITS
LONGITUDINAL RSCH ON ADJ OF RECRUTS TO ARMY IN BASIC TNG AND ACV TNG
DEV WORK METH AND PROC TO ACCOMPLISH MAP-OFF-EARTH HELICOPTER FLIGHT
DETERMINE HUM INFO PRINCIPLES THAT IMPACT ON DESIGN MIL INFC SYS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
THREE CONUS FIELD UNITS, ONE IN USAREUR AND ONE IN KOREA SUPPORT THE IN
HOUSE RSCH PRG IN HUM PERF EXP, MANNED SYS, LDRSHP PERF, UNIT TNG AND
SOC PRG. A NEW CENTRAL LABORATORY COMPUTER FACILITY PERMITS CENTRAL
MONITORING OF FIELD RESPONSES BY OFFICERS IN CAREER COUNSELING RSCH
TWO FIELD UNITS PROVIDE HUM PERF EXP SUPPORT TO MASTER PRG AND TO
DEPT NT VISION PRG. RSCH HTL TEAM ASSESSES OPERATIONAL UTILIZATION OF
RSCH PRODUCTS AND PROVIDES GUIDANCE FOR NEW RSCH DIRECTION

INSTALLATION RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE Natick, Mass.

DADDIS

C.O. COL LEFRY G. JONES

TECH. DIR. DR. DAVID E. HASS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	2.948	3.224
TOTAL PROCUREMENT	0.000	0.000
TOTAL CGM	0.000	0.000
TOTAL OTHER	0.768	0.893
TOTAL ANNUAL LAB	3.716	4.117
TOTAL INHOUSE	3.716	4.117
TOTAL INHOUSE RDT&E	2.948	3.224
ANNUAL OPERATING COST	1.070	1.190

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	84	17	59	25
CIVILIAN	102	19	46	56
TOTAL	186	36	105	81

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	EQUIP
4	60.421	18.563	28.647	107.631	3.663	1.800

...MISSION
TO CONDUCT BASIC AND APPLIED RESEARCH TO DETERMINE HOW HEAT, COLD, HIGH TERRESTRIAL ELEVATION AND WORK AFFECT THE SOLDIER'S LIFE PROCESSES, PERFORMANCE AND HEALTH, AND TO REPORT AND ADVISE THE ARMY AND THE SCIENTIFIC COMMUNITY.

...CURRENT IMPORTANT PROGRAMS
PREVENTION & TREATMENT OF DISABILITIES DUE TO MILITARY OP IN EXTREME ENVIRONMENTS. PREDICTION OF LIMITS OF MIL PERFORMANCE AS FUNCTION OF ENVIRONMENT, CLOTHING AND EQUIPMENT. MED PROBLEMS IN MIL ARCTIC OP. BIOLOGICAL PROCESSES THAT LIMIT HEAVY PHYSICAL WORK. EVALUATION OF ARMY PHYSICAL FITNESS TRAINING PROGRAM.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCT RESEARCH AND PROVIDE GUIDANCE TO DESIGNERS, ENGINEERS, TACTICIANS, PLANNERS AND PHYSICIANS ON MIL PERFORMANCE AND CASUALTY PREVENTION AND TREATMENT IN EXTREME CLIMATES AND ENGINEERED ENVIRONMENT. ADVISE ON HEALTH AND SAFETY IN MANEUVERS DURING HEAT, COLD OR HYPOXIC STRESS. TREAT COLD CASUALTIES AT BASSETT ARMY HOSPITAL, ALASKA. IN HUMAN AND ANIMAL RESEARCH, USE APPROX 50 VOLUNTEER TEST SUBJECTS AND EXTENSIVE ANIMAL CARE FACILITIES. ELECTRON MICROSCOPE, UNDERWATER RESEARCH POOL, CUPPER MANIKINS, AND DIVERSE EQUIPMENT FOR BIOCHEMICAL, MEDICAL, PHYSIOLOGICAL, PHARMACOLOGICAL, AND PSYCHOLOGICAL MEASUREMENT.

INSTALLATION ROCK ISLAND ARSENAL LABORATORIES

ROCK ISLAND, IL.

DA0039

C.O. COL T.F. ANGUS, JP.

TECH. DIR. DR. ROYCE E. BECKETT

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 ACTUAL	1974 ACT + EST
TOTAL R&D	14.720	12.817
TOTAL PROCUREMENT	0.452	0.382
TOTAL OEM	5.451	4.908
TOTAL OTHER	0.218	0.248
TOTAL ANNUAL LAB	21.041	18.655
TOTAL INHOUSE	15.232	12.450
TOTAL INHOUSE R&D	9.854	7.335
ANNUAL OPERATING COST	6.475	5.447

PERSONNEL	AUTHORIZED STRENGTH	END OF FY 1973	TOTAL	TOTAL PROF	NON- PROF
MILITARY	16		4	15	1
CIVILIAN	764		18	251	513
TOTAL	780		22	266	514

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	EQUIP
18	114.617	179.998	206.679	501.294	3.940	10.721

...MISSION

ACFT XPN SYS, ARTY & INF WPNS, CREW SERVED WPNS MTD ON ANY TYP VEH, & INF & CONVL ARTY LANH DVC FOR BOTH CONVL SIN & H CAP BST RKT ARTY SHL, EXCL FREE RKT, GH, BAL MSL, TGT MSL & RELATED LANH & GSE. CLIPS LK & MAG FLR FOR CONVL AMMUNTK, SP ARTY & ASGD SPV, CUPOLA, RCL & MT, ELEV & TRAV MECH.

...CURRENT IMPORTANT PROGRAMS

GUN LOW ALTITUDE AIR DEFENSE PROTOTYPE-GLAADS

LARGE CALIBER SOFT RECOIL SYSTEM -MM204

SQUAD AUTOMATIC WEAPON

ADVANCED MEDIUM CALIBER WEAPON 30MM

BEAM RIDER PROJECTILES FOR DIRECT FIRE SYSTEMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FAC CAPABILITIES-RNG FAC PERMIT FIRING ARTY XPN OF 105MM SIZE OR SMALLER USING INRT PJCTL AT 0 DEGREES EL INTO PRF BUTT AT 100 YDS DIST. WFN FIR AT EL USING DISINTEGRATING PJCTL LOADED W/NET SAND, RNG 1000 HSG 1AD00R RNG, 2 ARE 100 MIR, 1 CLIMATIC C1MIR RNG 1000 IN W/CONT HWD TEMP OF -90/ PLUS 200 DEGREE F. 1 1000 IN XPN MT SIN RNG. ANY SA WPNS THRL 40MM CAN BE FIRED, LATTER RNG 25 W, 20 H PERMITS FIRING FROM TR OR HLCPTR. ACCESS TO IDH 360/65 COMPUTATION CENTER, PROTOTYPE SHP IN SUPPORT OF RDT&E.

MAJOR EQUIP- ILLUSTRUMAT 1200, CMPTR GRPHS, MT INSTN SYS, VAR FLEXIBILITY GUN MT, PROTOTYPE HIGH-SPEED SONG IR RADIOMETER SYS, HOLOGRAPHIC SYS, VAR ANGLE HLCPTR MT, ALPINA LUBR TESTER MODEL LF63, MOTION TABLE FOR SMALL TURRET STBLN TESTING, HYDR FLOW SIN-HYFLS, SMALL TURRET FIRING FIXTURE, NON-FIRING AUTO AMMO LOADER FOR TANKS, THERM ENVIR SIN EQUIP FOR WPNS SYS

INSTALLATION TANK-AUTOMOTIVE LABORATORIES

WARREN, MI.

DA0041

C.O. MG J.E. PIEKLICK

DIR. NOCE LTC R.E. PHILIPP

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	34.066	20.148
TOTAL PROCUREMENT	18.722	15.900
TOTAL O&M	5.539	10.843
TOTAL OTHER	0.252	0.252
TOTAL ANNUAL LAB	58.979	47.143
TOTAL INHOUSE	26.409	26.342
TOTAL INHOUSE R&D	14.903	10.979
ANNUAL OPERATING COST	9.588	4.095

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	35	1	22	13
CIVILIAN	922	7	443	479
TOTAL	957	8	465	492

SPACE AND PROPERTY

ACRFS	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROG
1125	473.000	0.000	0.000	473.000	20.570	10.668

MISSION
RESPONSIBILITY FOR RESEARCH, CONCEPT, DESIGN, DEVELOPMENT, FABRICATION, ADVANCED PRODUCTION ENGINEERING, SUPPORT TO PRODUCTION, FOR PRESENT AND FUTURE VEHICLES SYSTEMS AND SUB-SYSTEMS OF TANK-AUTOMOTIVE MATERIEL AND ITS FUTURE SCIENCES

CURRENT IMPORTANT PROGRAMS
AUTOMATIC TEST EQPT FOR INTERNAL COMBUSTION ENGINE POWERED MATERIEL
MID-RANGE AND LCNG RANGE CONCEPT STUDIES ON FUTURE TRANSPORT VEHICLES
MID-RANGE AND LONG RANGE CONCEPT STUDIES ON FUTURE TACTICAL VEHICLES
HYBRID ENGINE DEVELOPMENT
RIVERINE RESEARCH

FUNCTIONS/EQUIPMENT/CAPABILITIES

VEHICLE BRAKE DYNAMOMETER
VEHICLE SUBSYSTEM INTEGRATION
ANALYTICAL PREDICTION OF MILITARY VEHICLE PERFORMANCE
VEHICLE MOTION SIMULATOR
RIVER SIMULATOR FACILITY AND LAND LOCOMOTION SOIL BINS
POULUTION ABATEMENT
VEHICLE SIGNATURE PROGRAM
VEHICULAR NOISE REDUCTION PROGRAM
SIX DEGREE OF FREEDOM SIMULATOR
METAL ANAL W/MI. MICRORPROBE ELECTRON MICROSCOPE ANALYZER AND TECHNIQUES
DEVELOPMENT OF IMPROVED ARMOR WELDING AND FABRICATION
LOW TEMPERATURE, SHOCK AND VIBRATION TEST FACILITIES

INSTALLATION TROPIC TEST CENTER

FT. CLAYTON, G.Z.

DA0065

C.O. COL ARNOLD M. SARGENT

TECH. DIR. MR. FRANK S. PENDZ

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL ROTGE	2.625	2.454
TOTAL PROCUREMENT	0.028	0.029
TOTAL IGH	0.001	0.004
TOTAL OTHER	1.300	1.302
TOTAL ANNUAL LAB	3.954	3.789
TOTAL INHOUSE	3.954	3.789
TOTAL INHOUSE ROTGE	2.625	2.454
ANNUAL OPERATING COST	0.508	0.508

PERSONNEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)		NON- PROF
		TOTAL PROFS	TOTAL NON- PROF	
MILITARY	95	0	30	65
CIVILIAN	78	5	10	68
TOTAL	173	5	40	133

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
18870	12,655	58,244	157,265	227,564	1,128	4,076

...MISSION
PLAN AND CONDUCT ENVIRONMENTAL PHASES OF DEVELOPMENT-TYPE TESTING
(ENGINEERING)(SERVICE), CHECK AND CONFIRMATION TESTS.

...CURRENT IMPORTANT PROGRAMS
IN-HOUSE LABORATORY INDEPENDENT RESEARCH (IIR).
RELIABILITY AND MAINTAINABILITY OF MATERIEL IN THE TROPICS.
RADIO FREQUENCY COMMUNICATIONS TEST PROCEDURES.
MOBILITY IN NATURAL ENVIRONMENT.
EXPOSURE/PERFORMANCE TESTS OF SELECTED MATERIEL ITEMS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
EVALUATE AND RECOMMEND AS TO TEST ITEM SUITABILITY FOR PRESCRIBED USE.
RECOMMEND TO HQ, TECOM, RESEARCH PROJECTS IN SUPPORT OF ARMY NEEDS.
PLAN AND SUPPORT ROTGE ACTIVITIES FOR DOD OR OTHER GOVERNMENT AGENCIES.
NATURAL TROPICAL ENVIRONMENT. FIRING RANGES UP TO 105MM CALIBER.
NATURAL TERRAIN MOBILITY COURSES. AMMO TEST STORAGE AND FUNCTIONING
AREAS. CHEMICAL, BIOLOGICAL, ELECTRONICS, SOILS, HUMAN FACTORS, AND
CALIBRATION LABORATORIES. JUNGLE GRASS AND COSTAL MATERIEL EXPOSURE
SITES. JUNGLE RADIO RANGING SITES. MAN-PACK PORTABILITY COURSE.
CALIBRATED SEISMIC DETECTION AND CHEMICAL TEST GRIDS. PHOTOGRAPHIC
SUPPORT FACILITY. TECHNICAL OPERATIONS SUPPORT FACILITY. POLE TANK
FARM.

INSTALLATION: WALTER REED ARMY INSTITUTE OF RESEARCH

WASHINGTON, D.C.

D40016

C.O. COL EDWARD L. BUESCHER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 FACTUAL	1974 FACT + EST
TOTAL RDTTE	15.192	14.253
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.198	0.020
TOTAL OTHER	4.742	5.891
TOTAL A&M&R LAB	20.132	20.164
TOTAL INHOUSE	20.132	20.164
TOTAL INHOUSE RDTTE	15.192	14.253
A&M&R OPERATING COST	3.420	3.380

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL		TOTAL PROF	AT&N- PROF
		PHDS	PROF		
MILITARY	479	154	325	150	
CIVILIAN	577	73	162	415	
TOTAL	1056	227	491	565	

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROP
1771	389.300	59.150	0.000	448.450	0.000	44.901

MISSION

PERF MED R&D AND CONDUCTS GRAD EDUC IN FLD OF MED, VET MED & ALLIED MED SCI. SERVES AS CONSULTING & DIAGNOSTIC REF LAB FOR ARMY. PROV AD SVC ON PRIN OF EPIDEMIOLOGY IN MIL MED & ALLIED FLD. PROV TECH QUALITY CONTROL OF MIL PROD DEV'L. PRODUCES & DISTR BIOL PROD NOT AVAIL LOML SOURCES.

CURRENT IMPORTANT PROGRAMS

DISCOVER EFFECTIVE PREV & TREAT AGENTS FOR CONTROL OF DRUG REFRACTORY MALARIA. DEVELOP MODES FOR CONTROL OF MENINGOCOCAL & OTHER RESPIRATORY DISEASES OF RECRUTS. DEFINE ECOLG OF DRUG ABUSE IN SOLDIERS. MELFC-THAI PHARMACOLOGY STUDIES OF CHEMOTH. THERAPEUTIC DRUGS. TO DEVELOP IMPROVED SURGICAL MANAGEMENT OF SEVERELY INJURED COMBAT CASUALTIES.

FUNCTIONS/EQUIPMENT/CAPABILITIES

RESEARCH, TEACHING, AND REFERENCE LAB SVC SUMMARIZE MAJOR FUNCTIONS IN AREAS OF PREVENTIVE MEDICINE, INFECTIOUS DISEASES, SURGERY, NEURO-PsYCHIATRY RELATED DISEASE, INTERNAL MEDICINE, CHEMISTRY, AND BASIC MEDICAL SCIENCES. HIGHLY SOPHISTICATED MEDICAL EQUIPMENT IN ALL AREAS OF INVESTIGATION, ELECTRON MICROSCOPES, AUTOMATED / HEMICAL ANALYSIS SYSTEMS, CHEMICAL TYPEWRITERS, BEHAVIORAL RESEARCH INSTRUMENTATION. WRAIR MAINTAINS LABORATORY AND RESEARCH FACILITIES AT FT MEADE, MD, SPRINGFIELD ARSENAL, MD, SEATO HQ, BANGKOK, THAILAND, AND BRAZIL. SOUTH AMERICA. WRAIR IS CAPABLE OF CONDUCTING RESEARCH IN A VAST NUMBER OF AREAS.

INSTALLATION: WHITE SANDS MISSILE RANGE

WHITE SANDS NM, N.M.

DA0041

C.G.O. MG ARTHUR H. SHEENEY, JR.

TECH. DIR. DR. RICHARD H. DUNCAN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	92.656	96.214
TOTAL PURCHASEMENT	3.876	3.825
TOTAL O&M	2.712	1.683
TOTAL OTHER	11.862	11.917
TOTAL ANNUAL LAB	111.106	111.539
TOTAL INHOUSE	92.001	85.746
TOTAL INHOUSE RDT&E	73.759	68.641
ANNUAL OPERATING COST	23.610	27.192

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	1077	5	1104	31
CIVILIAN	1395	6	641	2754
TOTAL	4472	11	1549	2985

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	CAB ADMIN OTHER	TOTAL REAL PROP EQUIP
5659409	1616.568 444.588 2864.244	4725.360 168.167 164.620

MISSION

MISSION-OPERATE A NATIONAL MISSILE RANGE FOR SUPPORT OF ALL APPROVED MISSILE AND RELATED TEST PROGRAMS. INDEPENDENTLY TEST AND EVALUATE ARMY MISSILE AND ROCKET SYSTEMS. ENGINEER AND DEVELOP RANGE INSTRUMENTATION SYSTEMS FOR GATHERING TEST DATA.

CURRENT IMPORTANT PROGRAMS

POLEST-DOPPLER RADAR APPLICATIONS
DISTANT OPTICAL ATTITUDE MEASURING SYSTEM
TRANSPONDER DEVELOPMENT
LASER RANGING AND TRACKING SYSTEM
CONCURRENT REACTOR CHECKOUT SYSTEM

FUNCTIONS/EQUIPMENT/CAPABILITIES

GRINDING AND FLIGHT SAFETY, OBTAINING FLIGHT TRAJECTORY AND EVENT DATA, RECEIVING MISSILES ON PORTIONS THEREOF, REDUCING AND PUTTING INTO PLAINABLE FORMS DATA COLLECTED BY RANGE INSTRUMENTS, ENGINEERING AND DEVELOPMENT OF RANGE INSTRUMENTATION. INDEPENDENTLY TEST AND EVALUATE ARMY WEAPONS SYSTEMS SYSTEMS.

EVALUATE GUIDANCE AND CONTROL SYSTEMS, STRUCTURAL INTEGRITY, PROPULSION SYSTEMS, ELECTROMAGNETIC RADIATION EFFECTS, ANALYSIS OF CHEMICAL AND METALLOGRAPHIC EFFECTS, MICROBIOLOGICAL EFFECTS, CLIMATIC ENVIRONMENTAL EFFECTS. TEST AND EVALUATE WARHEADS AND SPECIAL WEAPONS, WEAPONS SIMULATION, NUCLEAR EFFECTS TESTING, COUNTER-COUNTER MEASURES TESTING, ELECTRONIC AND OPTICAL TRACKING SENSORS AND DATA TRANSMISSION REQUIRED TO PROVIDE TEST DATA ON MISSILES AND RELATED PROGRAMS.

INSTALLATION YUMA PROVING GROUND

YUMA, ARIZONA

DA0055

C.G. COL HUGH H. PATTILLO

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL ROTGE	10.949	8.767
TOTAL PROCUREMENT	4.943	6.469
TOTAL CCM	1.834	1.900
TOTAL OTHER	5.118	10.541
TOTAL ANNUAL LAB	22.864	27.677
TOTAL INHOUSE	20.596	21.205
TOTAL INHOUSE ROTGE	9.836	8.767
ANNUAL OPERATING COST	6.821	7.100

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	386	7	94	292
CIVILIAN	710	0	75	635
TOTAL	1116	7	169	947

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAR	ADMIN	OTHER	TOTAL	REAL	PROF
R70179	0.000	75.907	1,104.800	1,260.805	31.243	47.900

...MISSION
PLAN,CONDUCT,SPT ET AIR DEL EQUIP,L-RNGE TUBE ARTY,ACRF, RPNNS SYC
PLAN,CONDUCT,RPT DESERT AND ARCTIC ENVIRONMENTAL TESTS
PROVIDE TEST,EVAL,ADVICE,GUIDANCE TO MAT DEVELOPS,PRODUCERS,PRI IND ETC
CONDUCT OTHER TESTS AND EVAL AS DIRECTED BY COM,TECOM

...CURRENT IMPORTANT PROGRAMS
ED SAM-D TRAILERS
ED AGFD-1500 GAS TURBINE ENGINE
ET IMPROVED CORSA ARMAMENT SYSTEM
ED XM201 CANNON -BM INITIATOR
IS XM692E1 PROJECTILE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
BALLISTIC MEASUREMENT RANGES
ENGINEERING TEST FACILITIES
VEHICLE FIELD TEST FACILITIES
TEST COURSES
DESERT TERRAIN TEST AREAS
INSTRUMENTED DROP ZONES
RADAR TELEMETRY
DATA PROCESSING CENTER
RANGE TIMING
OPTICAL PHOTO ENGR FACILITIES
CONTROLLED IMPACT TEST FACILITY
INSTRUMENTATION CALIBRATION FACILITY

INSTALLATION ENVIRONMENTAL PREDICTION RESEARCH FACILITY MARLBURY, MA.
CIV. CAPT G.D. HAMILTON

N66856

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	1.395	1.98
TOTAL PROCUREMENT	0.218	0.122
TOTAL DEM	0.005	0.000
TOTAL OTHER	0.249	0.190
TOTAL ANNUAL LAB	1.867	2.310
TOTAL INHOUSE		
TOTAL INHOUSE RDT&E	1.209	1.267
ANNUAL OPERATING COST	0.951	1.071
	0.115	0.160

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PNS		
MILITARY	16	1	0	0
CIVILIAN	27	2	17	10
TOTAL	43	3	25	10

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	EQUIP
0	1.000	3.012	10.440	14.462	0.000	0.395

MISSION
CONDUCT RESEARCH AND DEVELOPMENT, DIRECTED TOWARDS PROVIDING EFFECTIVE
LOCAL AND REGIONAL ENVIRONMENTAL ANALYSIS AND PREDICTION TECHNIQUES AND
PRIVATE PLANNING, MODELING AND EVALUATION SERVICES FOR THE NAVAL WEATHER
MODIFICATION PROGRAM.

CURRENT IMPORTANT PROGRAMS
COMPUTER SIMULATION OF RAINFALL AND PRECIP. MICROPHYSICAL PROCESSES.
IMPROVED TECHNIQUES FOR APPLICATIONS OF ENVIRONMENTAL SATELLITE DATA.
IMPROVED NUMERICAL MODELS OF THE ATMOSPHERE.
IMPROVED METEOROLOGICAL DATA PRESENTATION METHODS.
HYDRODYNAMICAL NUMERICAL MODELING OF WATER LEVELS, CURRENTS, ETC.

FUNCTIONS/EQUIPMENT/CAPABILITIES
CDC 3100 COMPUTER AND PERIPHERAL EQUIPMENT.
IBM 1130 COMPUTER AND PERIPHERAL EQUIPMENT.
METEOROLOGICAL/OCEANOGRAPHIC DATA DISPLAY SYSTEM.
22,000 VOLUME TECHNICAL LIBRARY OR ENVIRONMENTAL PUBLICATIONS.
IN-HOUSE GRAPHIC ARTS AND DRAFTING FACILITIES.
CALMA DIGITIZER.
CALCOMP 565 PLUTTER

INSTALLATION: NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY, PENSACOLA, FL.

N66452

C.O.: CAPT N.W. ALLEBACH

TECH. ADV. DR. A. GRAYBILL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 ACTUAL	1974 ACT + ESTI
TOTAL RDT&E	3.317	4.007
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.433	0.435
TOTAL ANNUAL LAB	3.750	4.442
TOTAL INHOUSE	3.750	4.442
TOTAL INHOUSE RDT&E	3.317	4.007
ANNUAL OPERATING COST	0.891	0.776

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL PROF	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHDS		
MILITARY	31	12	22	9
CIVILIAN	124	14	47	77
TOTAL	155	26	69	86

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	131.787	19.604	0.893	160.284	2.807	2.528

...MISSION
CONDUCT RESEARCH DEVELOPMENT TEST AND EVALUATION IN AEROSPACE MEDICINE
AND RELATED SCIENTIFIC AREAS APPLICABLE TO AEROSPACE SYSTEMS

...CURRENT IMPORTANT PROGRAMS
PHYSIOLOGICAL EFFECTS OF NONIONIZING RADIATION
HUMAN DYNAMIC RESPONSE TO IMPACT ACCELERATION
PREVENTION OF DISORIENTATION AND VESTIBULAR DISTURBANCES IN FLIGHT
AVIATION PERSONNEL PROCUREMENT AND SELECTION
IMPROVING FLEET EFFECTIVENESS OF PILOTS AND FLIGHT OFFICERS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
NONIONIZING RADIATION FACILITY WITH MICROWAVE AND EXTREMELY LOW FREQUENCY, IMPACT ACCELERATION FACILITY WITH 225000 POUND THRUST HORIZONTAL ACCELERATOR AND 40000 POUND THRUST VERTICAL ACCELERATOR, EQUIPPED FOR HUMAN AND ANIMAL EXPERIMENTS IN UNUSUAL FORCE ACOUSTICAL, ELECTROMAGNETIC AND ATMOSPHERIC ENVIRONMENTS, DEVELOP TESTS FOR PSYCHOLOGICAL APTITUDES AND TOLERANCE TO STRESS, SLOW ROTATION ROOMSHUMAN DISORIENTATION DEVICE, GORIUS ACCELERATION PLATFORMSHIP MOTION SIMULATOR, STILLE-WERNER CHAIR, OFF VERTICAL ROTATING CHAIR, CANACHICIC CHAMBER, SUPER CONDUCTING MAGNET, ELECTRON MICROSCOPE, ELECTRIC POSTURE TABLE, VERTICAL OSCILLATOR, PERIODIC ANGULAR ROTATOR, REVERBERANT CHAMBER, OPTOKINETIC STIMULATOR, GLOW PRESSURE CHAMBER, GIVIVARIUM WITH OPERATING SUITE, ULTRACENTRIFUGE, VECTORGRAPHIC BALLISTOCARDIOGRAPH, X-RAY.

INSTALLATION NAVAL AEROSPACE RECOVERY FACILITY EL CAETHU, GA.

N63062

C.O. CAPT CLARENCE E. RICH TECH. DIR. MR. HOWARD C. FISH

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	2.484	2.452
TOTAL PROCUREMENT	1.677	1.698
TOTAL OEM	0.351	0.347
TOTAL OTHER	2.052	1.769
TOTAL ANNUAL LAB	6.564	6.266
TOTAL INHOUSE	5.033	5.333
TOTAL INHOUSE RDT&E	2.415	2.354
ANNUAL OPERATING COST	1.211	1.473

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PINS	TOTAL PROF.	NON- PROF
MILITARY	166	1	11	555
CIVILIAN	119	0	25	94
TOTAL	285	1	36	249

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
101290	44.000	10.000	263.000	317.000	8.560	4.750

MISSION
CONDUCT RDT&E OF PARACHUTES AND RELATED ASSY HUMAN ESCAPE METHODS AND
SYS RETARD AND RECOV SYS AND RESCUE SURVIVAL AND PERSONNEL SAFETY EQUIP
STABILIZATION RETARD AND RECOV SYS FOR LAY-COMM WEAPONS AIRCRAFT, MISSILE
AND CAPSULE ASSY AND SPECIAL LOGISTIC AERIAL DELIV METHODS TECH EQUIP

CURRENT IMPORTANT PROGRAMS
LEAD LAB ON SEU-3A ESCAPE SYSTEM DTG FOR AV8A HARRIER AIRCRAFT
DEVELOP CONCEPT OF HELD ESCAPE SYS FOR COBRA AND OTHER COMBAT HELOS
PROJECT HANSAFE AUTOMATIC PARACHUTE FLUTATION SURVIVAL SYS DEVELOPMENT
QUICK RESPONSE FLEET SUPPORT ENGINEERING
PARACHUTE MATERIALS AND APPLICATIONS NOTE

FUNCTIONS/EQUIPMENT/CAPABILITIES
DROP TEST RANGE LAND AND SALT WATER INST WITH SPACE POSITION, LONG RANGE
PHOTO, CCTV, TELEMETRY, DATA PROC, RAWIN, WHIRL AND DROP TEST TOWERS, RANGE
PARAMETERS SEA LEVEL TO 80000 FT SPEED 0-MACH 3. ENGINEERING SERVICES
EXPL DEV, ADV AND BASIC DESIGN, INSEHR AND TEST ENGR, MATE LAB WITH TEX-
TILE MATE TEST AND ENVIRONMENTAL ACCEL EQUIP, TENSILE TEST TO 120000 LB
AND PHYSIOLOGICAL EVAL EQUIP, PHOTO LAB WITH STILL AND MOTION PICTURE 16
MM TO 70MM COLOR UP TO 5000FPS, A/C SUP, TRASPORT DELIVERY, LOW TO HIGH
SPEED VEHICLE DELIVERY, AIR-TO-AIR PHOTO, EJECTION SEAT TEST BED, PER-
SONNEL DELIVERY AND SIMULATED WEAPON DELIVERY, INDUSTRIAL SHOP-TEST
VEHICLE AND PROTOTYPE PARACHUTE AND ASSOCIATED HARDWARE FABRICATION.

INSTALLATION NAVAL AIR DEVELOPMENT CENTER

JOHNSVILLE, PA.

N62269

C.O. CAPT H.R. MC CAULLEY TECH. DIR. MR. G.L. HOLLINGSWORTH

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973	1974
	(ACTUAL)	(ACT + EST)
TOTAL R&D&E	87.536	92.237
TOTAL PROCUREMENT	31.558	33.500
TOTAL OEM	7.357	9.577
TOTAL OTHER	10.116	8.905
TOTAL ANNUAL LAB	136.607	144.219
TOTAL INHOUSE	56.515	60.051
TOTAL INHOUSE R&D&E	42.426	43.528
ANNUAL OPERATING COST	10.255	12.204

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PNS	TOTAL PROF	NON- PROF
MILITARY	187	4	86	303
CIVILIAN	2187	27	993	1194
TOTAL	2574	31	1077	1497

SPACE AND PROPERTY

ACRS	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
831	984.000	56.000	413.000	1353.000	24.101	37.020

MISSION
TO BE THE PRINCIPAL NAVY R&D CENTER FOR NAVAL AIRCRAFT SYSTEMS

..CURRENT IMPORTANT PROGRAMS

SHIP AIR SYSTEMS INTEGRATION (SASI)
LIGHT AIRBORNE MULTI-PURPOSE SYSTEMS (LAMPS)
ADVANCED ACOUSTIC SENSORS
P-3C AIRCRAFT WEAPON SYSTEM
AIRCRAFT LIFE SUPPORT SYSTEMS, PROTECTIVE CLOTHING AND DEVICES

..FUNCTIONS/EQUIPMENT/CAPABILITIES
R&D, DESIGN, DEVELOP, TEST, LAB AND FLIGHT EVAL, LONG-RANGE AIR WARFARE STUDIES, THEORETICAL ANAL, ENGIN ANAL AND FEAS, PROTOTYPE DEVELOP OF SYSTEMS IN AIR ASW, ATTACK CARRIER WARFARE AND OCEAN SURVEILLANCE ENGIN ANAL ON AERO SYSTEM COMP AND AREAS OF TECHNOLOGY IN AIR ASW SYSTEMS COMMUNICA TIONS, NAVIG, DIGITAL COMPUTATION, COUNTERMEAS, AEW, FG, AEROSPACE MED, BIOPHYSICAL EFFECTS OF ACCELERATION, HUMAN FACTORS, AIRCREW PERSONAL AND SAFETY EQUIP, MATERIALS AND PROCESSES USED IN A/C AIRFRAME STRUCTURE AND SUPPORT TO OTHER ACTIVITIES AS DIRECTED

INSTALLATION: NAVAL AIR ENGINEERING CENTER

PHILADELPHIA, PA.

N00156

C.O. CAPT T.F. LECHNER

TECH. DIR. MR. J.H. DUNFORD

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 FACTUAL	1974 FACT + EST
TOTAL RDT&E	9.793	7.950
TOTAL PROCUREMENT	48.917	39.500
TOTAL CGM	21.860	21.900
TOTAL OTHER	4.516	1.974
TOTAL ANNUAL LAB	85.086	73.324
 TOTAL INHOUSE	60.057	47.959
TOTAL INHOUSE RDT&E	6.859	4.719
ANNUAL OPERATING COST	9.288	9.562

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		WCR- PROF	
	AUTHORIZED STRENGTH	TOTAL PHDS		TOTAL PROF
MILITARY	38	0	13	23
CIVILIAN	2189	5	404	1704
TOTAL	2227	5	417	1807

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
560	872.778	94.161	1270.517	2237.456	33.546	20.902

...MISSION
CONDUCT A PROG. OF RDT&E, SYS. INTEGRATION, LIMITED PRODCTN, PROCUREMENT & FLEET ENGINEERING SUPP. IN LAUNCHING, RECOVERY & LANDING ATLS FOR A/C/C IN NAVAL INTELLIGENCE PROCESSING SYSTEMS & IN GROUND SUPPORT EQUIP. FOR A/C, AIRBORNE WEAPONS SYS. & NAVAL INTELLIGENCE PROCESSING SYS.

...CURRENT IMPORTANT PROGRAMS
LAHPS (LIGHT AIRBORNE MULTI-PURPOSE SYSTEM) HELICOPTER RECOVERY SYSTEM
HIGH CAPACITY, LIGHT WEIGHT, AIRCRAFT ARRESTING GEAR DEVELOPMENT
AUTOMATED LAUNCH AND RECOVERY SYSTEMS FOR SHIPBOARD AIRCRAFT
FACT. SUPP. CENTER/INTEGRATED OPERATIONAL INTEL. CENTER INTEGRATION STUDY
COANDA-FURDO JET ENGINE RUN-UP NOISE SUPPRESSION

...FUNCTIONS/EQUIPMENT/CAPABILITIES
TEST FACILITIES FOR FULL SCALE SIMULATION OF RUNWAY LOADING OF AIRCRAFT
LANDING MATS: EVALUATION OF 1 TO 1 1/2 INCH DIAMETER WIRE ROPE AND
ATTACHMENTS; AND DEVELOPMNTS AND SERVICE LIFE SIMULATION OF HYDRAULIC,
PNEUMATIC AND ELECTRICAL COMPONENTS/SUB-SYSTEMS. MOCK-UPS OF AIR
LAUNCHED WEAPONS HANDLING AND STORAGE FACILITIES ON CARRIERS. AIRCRAFT
CARRIER OPERATIONAL ANALYSES ROOM FOR STUDYING SPOTTING AND SERVICING
CAPABILITIES ON FLIGHT AND HANGAR DECKS. MACHINE SHOP W/10 CONVENTIONAL
AND AUTOMATED MACHINE TOOLS CAPABLE OF PROTOTYPE AND LIMITED PRODUCTION.
IBM 360/50 COMPUTER FOR ENGINEERING ANALYSES. TEST AND EVALUATION SITE
FOR NAVAL INTELLIGENCE PROCESSING SYSTEMS. VACUUM FURNACE FOR HEAT
TREATING. ELECTRON BEAM WELDER. CRYOGENICS FACILITY.

INSTALLATION: NAVAL AIR PROPULSION TEST CENTER

TRENTON, N.J.

N62176

C.O. CAPT A.D. WILLIAMS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	12.579	13.290
TOTAL PROCUREMENT	4.114	3.900
TOTAL OEM	0.053	0.190
TOTAL OTHER	1.563	1.709
TOTAL ANNUAL LAB	18.309	29.089
TOTAL INHOUSE	13.950	13.680
TOTAL INHOUSE R&D	9.052	8.691
ANNUAL OPERATING COST	2.785	3.001

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PROS	TOTAL PRIF	NON- PRIF
MILITARY	0	0	0	0
CIVILIAN	690	0	152	538
TOTAL	690	0	152	538

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL FREQ	EQUIP
66	410.937	51.800	136.000	598.737	45.936	11.644

MISSION
TO TEST & EVALUATE AIRCRAFT PROPULSION SYSTEMS - THEIR COMPONENTS AND ACCESSORIES AND FUELS AND LUBRICANTS AND TO PERFORM APPROPRIATE RESEARCH AND DEVELOPMENT LEADING TO CORRECTION OF DESIGN DEFICIENCIES AND SERVICE PROBLEMS. INCLUDES PROPELLER ENGINES AS WELL AS JET ENGINES.

CURRENT IMPORTANT PROGRAMS
F401-PM-400 PERFORM ALT. AND ENVIRONMENTAL DEVELOPMENT TEST AND EVALUATE TF30-P-412 ENGINE INVEST SERVICE PROBLEMS AND EVAL GTP HARDWARE
TF34-GE-2 REGT, PROTOTYPE HARDWARE EVAL. & SALT SUSCEPTIBILITY TESTS
T400-WV-400 ENGINE ALTITUDE QUALIFICATION & HI-LO TEMP TESTS AND CLALS
AVIATION FUELS AND LUBS CHARACTERISTICS, SPECIFICATIONS TESTS & QUALITY

FUNCTIONS/EQUIPMENT/CAPABILITIES
TEST AND EVALUATION CENTER FOR AIRCRAFT PROPULSION SYSTEMS AND PROPULSION RELATED COMPONENTS. ENVIRONMENTAL CONDITIONS OF FLIGHT AND SERVICE ARE SIMULATED IN TEST CELLS-ON TEST BENCHES-OR IN THE LABORATORY. THE LARGE CELLS HAVE ALTITUDE SIMULATION CAPABILITY FROM SEA LEVEL TO 100,000 FT. WITH TEMPERATURES FROM MINUS 45 TO PLUS 320 DEGREES F. ALTITUDE CELLS HAVE MACH 2.6 VELOCITY WHICH IS HAVING MACH 3 VELOCITY. SEA LEVEL CELLS HAVE MACH 1.2 VELOCITY. TEST CELLS CAPABLE OF HANDLING ALL PRESENT JET ENGINES IN NAVY USE. FOUR SMALL ENGINE TEST AREAS FOR SMALL TURBO-JET/FAIR/SHAFT ENGINES-POWER UNITS-ACCESSORIES. FLOWMETER CALIBRATION CAPABILITY FOR FLOWMETERS AND FUEL NOZZLES. HI-TEMP FUEL COMPONENT FACILITY FOR FUEL CONTROL/FEED SYSTEM COMPONENT CALIBRATIONS. REACTOR SPIN FACILITY-TRANSMISSION TEST FACILITY.

INSTALLATION NAVAL AIR TEST CENTER

PATUXENT RIVER, MD.

N00621

C.O. RADM ROY H. ISAHAN

TECH. DIR. MR. JOHN B. PARADIS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL ROTGE	31.800	33.307
TOTAL PROCUREMENT	28.536	29.069
TOTAL OEM	4.847	3.742
TOTAL OTHER	20.750	20.147
TOTAL ANNUAL LAB	85.933	86.265
TOTAL INHOUSE	71.254	71.148
TOTAL INHOUSE ROTGE	27.949	29.146
ANNUAL OPERATING COST	27.748	33.198

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NCN- PROF
MILITARY	1631	3	213	1418
CIVILIAN	2339	5	457	1982
TOTAL	4070	8	670	3400

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
6672	730.000	263.000	3604.000	4677.000	124.216	39.089

MISSION
COORDINATE & PERFORM TEST & EVAL OF AIRCRAFT WEAPONS SYSTEMS, THEIR
COMPONENTS & RELATED EQUIPMENT; CONDUCT TEST PILOT TRAINING; PROVIDE
TECHNICAL ADVICE & ASSISTANCE TO BIS NASC CONTRACTORS, ETC.

CURRENT INPORTANT PROGRAMS
EVALUATION NEW AIRCRAFT F14 S3R AH1J E2C LAMPS AT A4M A6E F4//
CHECKOUT ALL AIRCRAFT IN AIMS AIRSPEED/ALTIMETER SYSTEMS//CHECKOUT ALL
ACLS//DEVELOPMENT & EVAL OF ASW SYSTEMS TACTICAL SUPPORT CENTER PJC TSCV
EVAL GROUND SUPPORT EQUIP VAST HUMAN FACTORS GRAN HEADS UP DISPLAYS
SYSTEMS//ELECTRONIC WARFARE SYS TRAM EA6//

FUNCTIONS/EQUIPMENT/CAPABILITIES
DEVELOP & TEST CONCEPTS FOR OPERATION AIRPLANES FROM CARRIERS//EVAL
AIRCRAFT MAINTENANCE & RELIABILITY//PERFORM ACCELERATED SERVICE TESTS//
PERFORM ELECTROMAGNETIC COMPATIBILITY TESTS//DEVEL & EVAL AIRCRAFT ELEC
SYSTEMS//RESEARCH & DEVEL AIRCRAFT INSTRUMENTATION & DATA GATHERING
DEVICES & SYSTEM//ESTABLISH STORE RELEASE ENVELOPES//RECOMMEND DESIGN
CHANGES TO AIRCRAFT//CONDUCT NAVY PRELIMINARY EVALS//MAJOR FACILITIES//
CATAPULTS & ARRESTING GEAR//INTERFERENCE TEST HANGER//AVIONICS LAB//
INSTRUMENTED THEODOLITE RADAR & ECH RANGE//EXTENSIVE ELEC & ENVIRONMENTAL
LABS//EXTENSIVE INSTRUMENTATION, REAL TIME TELEMETRY, AND COMPUTER
CAPABILITY//ENGINE TEST CELLS//OVER 120 TEST AIRCRAFT//LONG RUNWAYS//
AIRCRAFT WEIGHING SCALES//HYDROFOIL SEAPLANE AND SURFACE EFFECTS SHIPS
TEST FACILITIES.

INSTALLATION: NAVAL AIR TEST FACILITY (SHIP INSTALLATIONS) LAKEFLRST, N.J.

N63113

C.O. CAPT R.C. ROWLEY

TECH. CHORD. MR. NICHOLAS EVANOVIC

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (FACTUAL)	1974 (FACT + EST)
TOTAL RDT&E	1.480	1.665
TOTAL PROCUREMENT	3.375	0.000
TOTAL COM	3.172	0.000
TOTAL OTHER	2.374	9.141
TOTAL ANNUAL LAB	10.401	10.806
TOTAL INHOUSE	9.881	10.497
TOTAL INHOUSE RDT&E	1.413	1.652
ANNUAL OPERATING COST	3.062	3.788

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	151	0	11	140
CIVILIAN	405	0	75	330
TOTAL	556	0	86	470

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
2500	59.204	29.598	91.906	180.708	35.429	7.569

MISSION

TO CONDUCT TESTS AND EVAL OF LAUNCHING, RECOVERY, AND VISUAL LANDING
AUS SYSTEMS AND RELATED EQUIPMENT. PROVIDE TEST SITES, FACILITIES, AND
SUPPORT SERVICES FOR DEV TESTS OF SI EQUIPMENT. CONDUCT R AND D OF EQUIP
AND INSTR USED IN TESTS AND EVAL OF SI EQUIPMENT.

CURRENT IMPORTANT PROGRAMS

HELICOPTER PERSONNEL ESCAPE SYSTEM
MK 7 JET BLAST DEFLECTOR TEST AND EVAL
CVAN 6R CATAPOULT CONFIGURATION TEST AND EVAL
C13 MOD 1 CATAPOULT DEVELOPMENT TEST AND EVAL
MK 14 ROTARY ARRESTING GEAR DEVELOPMENT

FUNCTIONS/EQUIPMENT/CAPABILITIES

CARRIER CONFIGS DUPLICATED AND SERV OPS SIMULATED WITH NAVAL ACFT
CAT DEV FAC SHIPBOARD USED TO DEV EVAL NEW ACFT CARRIER LAUNCH SYSTEMS
CAT DEV FAC SHOREBASED EXPEDITIONARY CAT FOR DEV OF MARINE CORPS SATS
CONCEPT AND REQUIRED ACFT LAUNCHING ACCESSORIES
ARRESTING GEAR DEV FAC SHIPBOARD CONFIGURED TO SIMULATE STANDARD
SHIPBOARD ARRESTING GEAR INSTAL MK 5 MOD 3 AND MK 7 MOD 1, 2 AND 3
TEST SPACE FAC 5 TO DEV AND/OR EVAL SHOREBASED AND SHIPBDRD ARRS SYS
HELICOPTER SUPPORT EQUIPMENT EVAL CTR WITH V/STOL FORWARD OPERATING FACILITY
AND UNIVERSAL LIGHTING PAD AND ELEVATED FIXFOU PLATFROM
DIGITAL AND ANALOG COMPUTATIONAL FAC PROVIDES FOR SCIENTIFIC PROBLEM
SOLUTION MTS AND SCIENTIFIC DATA REDUCTION OF ACQUIRED DATA
INSTR MAINT/CALEB FAC MOTION/STILL PHOTO CAP AND FILM DEV LAB

INSTALLATION: NAVAL BLOOD RESEARCH LABORATORY

CHILSEA, MS.

N65429

C.O. CDR CESARE R. VALERI

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL ROTC	0.390	0.682
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.000	0.000
TOTAL OTHER	0.157	0.200
TOTAL ANNUAL LAB	0.547	0.882
TOTAL INHOUSE	0.547	0.882
TOTAL INHOUSE ROTC	0.390	0.682
ANNUAL OPERATING COST	0.060	0.077

PERSONNEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)		TOTAL PROF	NON- PROF
		TOTAL	PHDS		
MILITARY	13	4	6	7	
CIVILIAN	10	0	1	9	
TOTAL	23	4	7	16	

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP
0	6.000	0.160	1.000	7.160	0.000	0.566

...MISSION

CONDUCT RESEARCH AND DEVELOP METHODS FOR LONG-TERM PRESERVATION OF BLOOD AND BLOOD PRODUCTS AND EVALUATION OF USEFULNESS IN OPERATIONAL AREAS ON LAND AND AT SEA AND IN HOSPITALS

...CURRENT IMPORTANT PROGRAMS

EVALUATE IMPROVED METHODS FOR PRESERVING RED CELLS
EVALUATE METHODS FOR PRESERVING PLATELETS AND WHITE CELLS
EVALUATE IMPROVED METHODS FOR COMPONENT THERAPY
CLINICAL EVALUATION OF FROZEN RED CELLS AND PLATELETS
EVALUATE METHODS OF REJUVENATING OUTDATED RED CELLS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

HOLD FOR DONOR AND RARE IN BLOOD BANK STORAGE CAPABILITY
LIQUID AND FREEZE PRESERVATION EQUIPMENT FOR RED CELLS, WHITE CELLS, AND
PLASMA COMPONENTS
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF RED
CELLS, WHITE CELLS AND PLATELETS

INSTALLATION NAVAL CIVIL ENGINEERING LABORATORY

FORT BUENEME, CA.

N62399

C.O. CAPT EDWARD M. SAUNDERS

TECH. DIR. MR. WILLIAM F. BURKART

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	10.601	6.801
TOTAL PROCUREMENT	0.191	0.156
TOTAL CGH	1.143	3.667
TOTAL OTHER	1.727	1.229
TOTAL ANNUAL LAB	13.662	11.853
TOTAL INHOUSE	12.471	9.843
TOTAL INHOUSE RDT&E	9.618	5.751
ANNUAL OPERATING COST	1.705	1.762

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHYS	TOTAL PROF	NON- PROF
MILITARY	16	1	11	5
CIVILIAN	340	38	137	203
TOTAL	356	39	148	208

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	EQUIP
22	120.152	21.977	31.546	173.677	5.736	5.682

MISSION

MISSION OF LABORATORY IS TO BE THE PRINCIPAL NAVY RDT&E CENTER FOR SHORE AND SEAFLOOR FACILITIES AND THE SUPPORT OF MARINE CORPS CONSTRUCTION FORCES

CURRENT IMPORTANT PROGRAMS

NAVY SHORE FACILITIES SUPPORT NAVY SEAFLOOR INSTALLATIONS AMPHIBIOUS ADVANCED BASE TECHNOLOGY ENVIRONMENTAL PROTECTION ORGANIC MATERIALS MATERIAL CONTROL DISTRIBUTION & STORAGE DEEP OCEAN TECHNOLOGY DEVELOPMENTS ASSIGNED BY SUTP OF SALVAGE INDEPENDENT EXPLORATORY DEVELOPMENT INDEPENDENT RESEARCH RDT&E FOR SANGUINE.

FUNCTIONS/EQUIPMENT/CAPABILITIES

PRESSURE VESSEL FACILITY WITH 72-INCH ID BY 10 FT DEEP PRESSURE VESSEL SUSTAINING PRESSURES UP TO 5500 PSI DIVING LOCKER & EQUIPMENT FOR DIVERS SEAFLOOR SOILS MATERIALS SOLID STATE METALLURGICAL PHOTELASTIC, SNOW AND ICE LABORATORIES, HARPING TUGGER FOR TAKING SAMPLES AT WATER DEPTHS TO 6000 FT, INSTRU TESTING EQUIPMENT FOR DEEP OCEAN INCLUDING A VANE SHEAR DEVICE, CONE PENETROMETER, 10 FT CORER PLATE BEARING TEST DEVICE & FOUNDATION MONITOR, A MOTION COMPENSATING LIFTING SYSTEM CAPABLE OF LIFTING 40,000 LBS FROM 6000 FT DEPTH, PHOTOGRAPHIC FACILITY, ENVIRONMENTAL PROTECTION MONITORING CAPABILITY, CDC-AC90 COMPUTER/TELEMATERIAL WITH A HIGH SPEED READER & LINE PRINTER, DIGITAL MAG TAPE T/P, ANALOG TAPE ADC & DAC CONVERSION & A PEN PLOTTER & TIE WITH CDC - 6600

INSTALLATION NAVAL CLOTHING AND TEXTILE RESEARCH UNIT Natick, MA.

N62167

C.O. CDR J.P. MITTS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL ROTGE	0.771	0.795
TOTAL PROCUREMENT	0.080	0.192
TOTAL OEM	0.590	0.607
TOTAL OTHER	0.022	0.015
TOTAL ANNUAL LAB	1.463	1.569
TOTAL INHOUSE	1.463	1.569
TOTAL INHOUSE ROTGE	0.771	0.795
ANNUAL OPERATING COST	0.165	0.212

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PIDS	TOTAL PROG	NU. OF CROF
MILITARY	1	0	0	1
CIVILIAN	60	0	22	38
TOTAL	61	0	22	39

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	SOCAL	REAL	PREP
2	10,000	7,000	3,000	20,000	0.275	0.600

MISSION

CONDUCT RESEARCH, DEVELOPMENT, TEST, AND EVALUATION AND GIVE ENGINEERING SUPPORT IN CLOTHING, TEXTILES, AND RELATED FIELDS ASSOCIATED WITH SERVICE CLOTHING AND ENVIRONMENTAL AND SPECIAL PROTECTIVE CLOTHING

CURRENT IMPORTANT PROGRAMS

STATIC ELECTRICITY PROPERTIES OF CLOTHING
COLD WEATHER HANDWEAR
MARK 46/48 TORPEDO FUEL HANDLERS' PROTECTIVE CLOTHING
SHIPBOARD FIRE RESISTANT CARPETING MATERIALS
SHIPBOARD COVERALLS

FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCT ROTGE IN TEXTILE MATERIALS, LEATHER, PLASTICS, AND RUBBER
DEVELOP NAVY CLOTHING, ACCESSORIES, AND RELATED ITEMS
CONDUCT STUDIES IN ENVIRONMENTAL SCIENCES AND LIFE SUPPORT SYSTEMS
PREPARE SPECIFICATIONS FOR CLOTHING, TEXTILES, FOOTWEAR AND RELATED ITEMS
COORDINATE STANDARDIZATION IN CLOTHING
PROVIDE TECHNICAL SUPPORT TO ALL OOD AGENCIES IN NAVY CLOTHING AREAS
MAJOR EQUIPMENT AND FACILITIES--
TEXTILE LABORATORIES
COLD TEST CHAMBERS
HYDRO ENVIRONMENT SIMULATOR
HIGH INTENSITY THERMAL TEST UNIT

INSTALLATION NAVAL COASTAL SYSTEMS LABORATORY

PANAMA CITY FL

N61131

..O. CAPT L.D.G. WHALEY

TECH. DIR. MR. GERALD G. GOULD

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
OTAL RDT&E	10.489	10.960
OTAL PROCUREMENT	1.112	0.769
OTAL O&M	2.387	4.413
OTAL OTHER	3.827	3.144
OTAL ANNUAL LAB	17.006	19.226
OTAL INHOUSE	16.022	17.338
OTAL INHOUSE RDT&E	9.050	9.150
ANNUAL OPERATING COST	4.909	5.845

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	140	3	15	125
CIVILIAN	577	18	240	337
OTAL	717	21	255	462

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ARMYN OTHER	TOTAL REAL FACP EQUIP
674	202.376 35.296 313.657	518.669 19.618 11.741

..MISSION

TO BE THE PRINCIPAL NAVY RDT&E CENTER FOR THE APPLICATION OF SCIENCE AND TECHNOLOGY ASSOCIATED WITH MILITARY OPERATIONS CARRIED OUT PRIMARILY IN THE COASTAL REGION, AND TO PERFORM INVESTIGATIONS IN RELATED FIELDS OF SCIENCE AND TECHNOLOGY.

..CURRENT IMPORTANT PROGRAMS
COASTAL TECHNOLOGY SUPPORTING MARINE CORP. SUPER CONDUCTING COUNTER MAGNETOMETER, AMPHIBIOUS MINE COUNTERMEASURES AND INSHORE WARFARE OPERATIONS, INTEGRATED SWIMMING DIVER SYSTEMS INCLUDING SALVAGE, ACOUSTIC WARFARE SYSTEMS FOR SURFACE SHIPS AND SUBMARINES, ACOUSTIC WARFARE SYSTEMS FOR SURFACE SHIPS AND SUBMARINES.

..FUNCTIONS/EQUIPMENT/CAPABILITIES
TWO GULF OFFSHORE RESEARCH PLATFORMS WITH LIVING/LABS FOR 30 & 4 PEOPLE.
MAN PATED OCEAN SIMULATION FACILITY ALMOST COMPLETED. SIMULATRON AND COMPUTER CENTER WITH XDS 9300, ADI 250, UNIVAC 1210 & BURROUGHS 9500 COMPUTERS AND ASSOCIATED EQUIPMENT. SEAFLOOR PLATFORM, MAGNETIC VILLAGE HELIPORT COMPLEX 3-RHS30 & L-MHIE HELOS. MODEL TOWING BASIN, UNDERWATER ACOUSTIC TRANSDUCER FAC, ACOUSTIC RESEARCH TANK, ACOUSTIC SIMULATOR, AUTOMATIC ELECTRONIC RANGING INSTRUMENTATION SYSTEM, SHORE OPTICAL-TRACKING SYSTEM, ENVIRONMENTAL SIMULATION LAB, RECOMPRESSION CHAMBERS, CALIBRATION STANDARDS FACILITY, INDUSTRIAL SHOPS, PIER SPACE AND BOATS, DROWNING/INJURING & PHYSIOLOGY LAB, HYDROSPACE LAB, SWIMMER/DIVER RCU FAC, HELMHOLTZ COIL FAC, MAGNETIC TARGET DETECTION & CLASSIFICATION RANGE, LOW FREQ FAC, COUNTERMEASURES EVALUATOR FAC, SOLENOID COIL FACILITY.

INSTALLATION NAVAL DENTAL RESEARCH INSTITUTE, NYC

GREAT LAKES, IL

N65786

C.O. CAPT H.J. KEENE

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 ACTUAL	1974 FACT + EST
TOTAL ROTC	0.335	0.391
TOTAL PROCUREMENT	0.000	0.000
TOTAL CGM	0.000	0.000
TOTAL OTHER	0.264	0.265
TOTAL ANNUAL LAB	0.603	0.656
TOTAL INHOUSE	0.603	0.656
TOTAL INHOUSE ROTC	0.335	0.391
ANNUAL OPERATING COST	0.164	0.070

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	ACN- PROF
MILITARY	18	2	10	7
CIVILIAN	17	2	14	3
TOTAL	35	4	25	10

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1	8.900	5.100	6.000	20.000	0.000	0.490

...MISSION
CONDUCT RESEARCH IN DENTAL PROBLEMS OF ORAL HEALTH IN NAVAL AND MARINE
COMBAT PERSONNEL AND DELIVERY OF DENTAL CARE

...CURRENT INQUIRIES

ORAL HEALTH OF NAVAL PERSONNEL
MICRORGANISMS IN INDUCED PERIODONTAL DISEASE
BIOCHEMISTRY OF INFECTION FREE AND PATHOLOGICAL ORAL ENVIRONMENTS
BACTERIOLOGY OF THE ORAL ENVIRONMENT IN CAVITIES FREE NAVAL RECRUITS
MOBILE FIELD AND COMBAT SUPPORT FOR MARINE AND NAVY TASK FORCES

...FUNCTIONS/EQUIPMENT/CAPABILITIES

ASSESS DENTAL HEALTH STATUS OF RECRUITS IMPROVE DISEASE PREVENTION AND
CARE PROCEDURES INCREASE QUALITY AND QUANTITY OF DENTAL CARE
ATOMIC ABSORPTION ANALYZER ATOMIC ABSORPTION UNIT FLUORIDE ELECTRODES
SCINTILLATION COUNTER MOBILE DENTAL TREATMENT VAN
4K MEMORY CORE COMPUTER GAS CHROMATOGRAPH UNIT
EVALUATION OF ORAL TISSUE
ATOMIC ABSORPTION ANALYZER ATOMIC ABSORPTION SPECTROPHOTOMETER FLUORIDE
ELECTRODE SCINTILLATION COUNTER MOBILE DENTAL TREATMENT UNIT
4K MEMORY CORE COMPUTER BACTERIAL TAXONOMY VACCINE PRODUCTION AND
TESTING DENTAL EQUIPMENT DESIGN AND FABRICATION

INSTALLATION NAVAL ELECTRONICS LABORATORY CENTER SAN DIEGO, CA.

NO0953

...DIR. CAPT N.D. HAROSH JR. TECH. DIR. DR. C.E. BERGMAN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	32.067	36.811
TOTAL PROCUREMENT	9.035	5.213
TOTAL OEM	21.713	10.130
TOTAL OTHER	7.719	7.282
TOTAL ANNUAL LAB	56.534	59.436
TOTAL INHOUSE	39.837	40.864
TOTAL INHOUSE RDT&E	22.465	25.002
ANNUAL OPERATING COST	13.976	14.859

PERSONNEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)		
		TOTAL PHDS	TOTAL PROF	ACD- FRUF
MILITARY	90	1	31	59
CIVILIAN	1473	63	729	744
TOTAL	1563	64	760	803

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAR	ADMIN	OTHER	TOTAL	REAL PROP
1591	421.750	115.543	77.620	614.921	12.219	36.532

...MISSION SYSTEMS ENGINEERING FOR COMMAND CONTROL TELECOMMUNICATIONS

...CURRENT IMPORTANT PROGRAMS
LEFT SATELLITE COMMUNICATION AND DIGITAL INFORMATION EXCHANGE SYSTEMS.
COMMUNICATION AUTOMATION TECHNOLOGY AND MESSAGE PROCESSING AND DISTRIBUTION SYSTEM FOR-CVAN 68 AND 69.
IMPROVEMENT OF FMN COMMUNICATION SYSTEMS.
OPERATIONAL APPLICATIONS OF ELECTRO-OPTICS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FUNCTIONS ARE TO ESTABLISH AND MAINTAIN THE PRIMARY IN-HOUSE RESEARCH AND DEVELOPMENT CAPABILITY FOR NAVY AND MARINE COMPS SYSTEMS AND TECHNOLOGIES FOR COMMAND CONTROL AND COMMUNICATIONS, ELECTRONIC WARFARE, ELECTROMAGNETIC SURVEILLANCE, IDENTIFICATION, AND NAVIGATION.
FACILITIES INCLUDE: ADVANCED COMPUTER SCIENCE CENTER, MICROELECTRONICS LAB, ENVIRONMENTAL TEST FACILITY, ELECTRO-OPTICS R&D LAB, MATERIALS SCIENCE LAB, SIXTY FORTY MICROWAVE SPACE RESEARCH FACILITY, ANTENNA MODEL RANKS, HUMAN FACTORS LAB, SYSTEMS EVALUATION FACILITIES.

INSTALLATION NAVAL EXPLOSIVE ORDNANCE DISPOSAL FACILITY INDIAN HEAD MD

NO4664

U. CDR DEWITT H. HINDY TECH. DIR. MR. LIONEL A. DICKINSON

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		1974
	(ACTUAL)	(ACT + EST)	
DTAL RDTCE	2.739	3.133	
DTAL PROCUREMENT	2.673	2.958	
DTAL CEM	0.210	0.002	
DTAL OTHER	0.651	0.625	
DTAL ANNUAL LAB	6.273	5.816	
DTAL INHOUSE	3.769	3.937	
DTAL INHOUSE RDTCE	1.522	1.810	
ANNUAL OPERATING COST	1.370	1.355	

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL	TOTAL	MILITARY PROF
	AUTHORIZED	STRENGTH	PHDS	PROF	
MILITARY	53	0	9	44	
CIVILIAN	152	1	19	133	
DTAL	205	1	20	177	

ACRES	SPACE AND PROPERTY			COST (MILLION \$)	
	LAB	HUMAN	OTHER	TOTAL	REAL PROF EQUIP
1084	50.771	28.757	49.959	129.527	3.007 1.962

MISSION
 UNDER POLICY GUARD OF JOINT SERVICE EOD PROGRAM & MANAGEMENT OF SECNAV
 CONDUCT JOINT SERVICE RDTCE TECHNICAL PUB AND EQUIPMENT MANAGEMENT PROGS
 TO SUPPORT LOCATION, IDENT, NEUTRALIZATION & DISM. OF EXPLOS DDEV AND SUPP
 OTHER GOVERNMENT AGENCIES

CURRENT IMPORTANT PROGRAMS
 JOINT SERVICE EOD RDTCE
 JOINT SERVICE EOD TECHNICAL PUBLICATIONS
 JOINT SERVICE EOD EQUIPMENT MANAGEMENT
 NAVAL MINE LOCATION AND NEUTRALIZATION
 INIT EXAM FOREIGN EXPLOS DDEV & IMP DEVICES BY EXPLOS DDEV DETECT & NEUTR

FUNCTIONS/EQUIPMENT/CAPABILITIES
 MULTIDISCIPLINARY RDTCE LABORATORY SPACES AND MODEL SHOPS
 ORDNANCE EXAMINATION FACILITY WITH REMOTELY OPERATED EQUIPMENT AND
 EXTENSIVE RADIOPHOTOGRAPHIC CAPABILITY
 HAN RATED TEMPERATURE CONTROLLED DIVING TANK(137 METERS SEAMASTER)
 EQUIPMENT UNDERWATER TEST TANK(3000 METERS SEAMASTER)
 INSTRUMENTED MINE RANGE
 ORDNANCE LIBRARY

ELATION: NAVAL MEDICAL FIELD RESEARCH LABORATORY CAMP LEJEUNE, N.C.

N67245

CAPT JESSE F. ADAMS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

AM	1973		1974	
	FACTUAL	FACT + EST	FACTUAL	FACT + EST
ROTCE	0.789	0.820		
PROCUREMENT	0.303	0.911		
CGH	0.005	0.000		
OTHER	0.337	0.335		
ANNUAL LAB	1.434	1.169		
INHOUSE			1.169	
INHOUSE ROTCE	0.788	0.820		
OPERATING COST	0.245	0.220		

PERSONNEL DATA (END OF FY 1973)

RNF	AUTHORIZED STRENGTH	TOTAL		NON- PROF
		PROFS	PROF	
ARY	34	4	5	29
IAN	42	2	6	36
	76	6	11	65

SPACE AND PROPERTY

ES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
3	20.226	8.655	15.590	52.471	39.539	0.678

SSION
ICT RESEARCH, DEVELOPMENT, & TESTING IN THE MEDICAL, DENTAL, &
D SCIENCES WITH PARTICULAR EMPHASIS ON PROBLEMS OF FIELD &
DIOUS MEDICINE

IMPORTANT PROGRAMS

WATER ACCLIMATIZATION & EVAL OF FIELD WATER PURIFICATION SYSTEMS

ICRYOLYSIS

INFLAMMATORY URETHRITIS & DIARRHEA IN USMC PERSONNEL

IN MODULAR FIELD & SHIPBOARD MEDICAL FACILITIES

IN CONTROL METHODS, EQUIPMENT & SUPPLIES

INSTITUTIONS/EQUIPMENT/CAPABILITIES

IN RES IN PROBLEMS OF FLD & AMPHIB MEDS DEVELOP, TEST & EVAL MED
IC SUPPLIES & CLOTHING & EQUIP FOR USMC PERSONNEL USE & PROTECTION
IN CAPABILITIES IN APPL RES, SPECIFICALLY IN AREAS OF MICROBIOL,
IMM, STRESS PHYSIOL, ENZYMOL, ENVIRON BIOL, FLD MED EQUIP, BIOCHEM,
IN INVESTIGATIONS, MAJOR EQUIP: BALLISTIC RANGE, HIGH-SPEED BECKMAN
LA, MATERIALS LAMINATION PRESS & SEALERS, SEWING EQUIP, 2-MAN RESP
ENVIRON CHAMBER, CLIMATIC CHAMBER, SMALL LOW-PRESSURE & LOW-TEMP
IN, HYDROGEN ANALYZER, UNRESTRICTED PHOTO CAPABILITY, PHOTO MICROSCOPE,
STAT, SOUND RECORDER, ANALYZER SPECTRUM, OSCILLATOR VOLTAGE CONTROL

IN: NAVAL MEDICAL RESEARCH INSTITUTE

GE THESSA, NO.

N64223

FOR RECORDER

PROGRAM DATA BY FISCAL YEAR (IN MILLION \$)

	1973	1974
	FACTUAL	FACT + EST
INVESTMENT	5.057	5.913
LAB	0.000	0.000
R&D	0.000	0.400
RL LAB	2.465	2.465
USE	7.522	8.378
USE HOUSING	5.056	5.913
RATING COST	1.480	1.491

PERSONNEL DATA (END OF FY 1973)

AUTORIZERED STRENGTH	TOTAL		NON- PROF
	PROFS	PROF	
203	59	77	126
210	56	59	151
413	65	136	277

SPACE AND PROPERTY

SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)		
	LAB	ADMIN	OTHER
151,730	21,561	26,590	199,661

 TOTAL REAL PROP EQUIP

 4,066 4,066 5,012

ISIC 6 APPLIED RESEARCH &
67 CONCERNED WITH THE HEALTH
EFFICIENCY OF NAVAL

1. IMPORTANT PROGRAMS
HUMAN BLOOD TRANSPLANTS & IMMUNOSUPPRESSION IN RESTORATIVE SURG
EV FUM CONTROL, DE PALARIA & SCHISTOSOMIASIS
LD STRESS IN HYPERBARIC & HIGH ALTITUDE ENVIRONMENTS
ON HYPERBARIC ENVIRONMENTS
S OF ORAL PHARAOH DISEASE & TREATMENT OF ORAL DISEASE & TRAUMA

2. INS/EQUIPMENT/CAPABILITIES
DEVELOPMENTAL RESEARCH IN THE BIOMEDICAL
ES & EXPECTING HUMAN HEALTH SAFETY & PERFORMANCE INCLUDING
TRANSMISSION STRESS FACILITIES INCLUDING
C CHANNELS, SIMPLEX
ECG & SCANNING ELECTRON MICROSCOPE
RESERVATION & TRANSPLANTATION CAPABILITIES
BIOCHEMISTRY
ITAL ANIMAL FACILITIES & ANIMAL HOUSE

LATION NAVAL MEDICAL RESEARCH UNIT NO. 2

TAIPEI, TAIWAN

N62814

APT R.H. MATTHEW

CH. SCI. DR. R. Q. BLACKWELL

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + EST)
ROTCE	1.565	1.543
PROCUREMENT	0.000	0.000
CGM	0.010	0.000
OTHER	0.512	0.575
ANNUAL LAB	2.13	2.118
INHOUSE	2.137	2.118
INHOUSE ROTCE	1.565	1.543
OPERATING COST	0.605	0.632

PERSONNEL DATA (END OF FY 1973)

UNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
ARMY	36	15	29	5
SEAN	9	2	5	4
	43	17	34	9

SPACE & PROPERTY

ES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROP
2	32.882	16.075	48.364	57.321	0.101	0.908

SSION
RESEARCH AND DEVELOPMENT IN THE BIOMEDICAL SCIENCES. PROVIDE DATA
SEAS AND MEDICAL PROBLEMS OF MILITARY SIGNIFICANCE. RECOMMEND
UL MEASURES AND PROVIDE TRAINING IN RES & DEV TECHNIQUES.

ERENT IMPORTANT PROGRAMS
ENCE OF NUTRITION ON SUSCEPTIBILITY OF INFECT DIS HAB CH PERFORM.
ES OF FILARIASIS IN PHILIPPINES AND INDONESIA
ES OF SCHISTOSOMIASIS IN INDONESIA AND INFLUENZA IN S.E. ASIA
LOGY OF FEBRILE ILLNESS IN INDONESIA AND S.E. ASIA AND WEST PACIFIC
ENTOLOGY OF INFECT HEPATITIS AND MALARIA RESISTANCE IN S.E. ASIA

FUNCTIONS/EQUIPMENT/CAPABILITIES
ICAL STUDY OF DIAGNOSIS AND TREATMENT OF TROPICAL DISEASES AND
EMIOLOGICAL STUDY OF INFECTIOUS DISEASES. COMPLETE RADIGI SURGE
PMENT AND COMPUTER CAPABILITY PROFICIENCY IN CLINICAL INVESTIGATION
HIMATOLOGY MEDICAL PHYSICS MEDICAL ECOLOGY BIOCHEMISTRY PATHOLOGY
AT FACILITY.

ATION NAVAL MEDICAL RESEARCH UNIT NO. 3 CAIRO, EGYPT

N61751

PT HENRY A. SPARKS TECH. DIR. DR. H. HODGSTRAL

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + EST)
OFFICE	0.856	1.091
DOCUMENTATION	0.619	0.619
ISM	0.000	0.000
THIR	0.372	0.375
MINIAL LAB	1.847	2.085
NIHOUSE	1.847	2.085
NIHOUSE RDTCE	0.856	1.091
OPERATING COST	0.619	0.619

EL	PERSONNEL DATA (END OF FY 1973)	TOTAL	TOTAL	NON-
	AUTHORIZED STRENGTH	PHDS	PROF	PROF
Y	31	8	12	19
3	260	4	4	256
	291	12	16	275

SPACE AND PROPERTY			CUST (MILLION \$)		
SPACE (THOUSANDS OF SQUARE FEET)			LAB	ADMIN	OTHER
			TOTAL	REAL	PROP EQUIP
			18.242	9.500	2.300
			30.042	0.346	0.790

ON
INTO CAUSES, PATHOGENES, EPIDEMIOLOGY, PREVENTION AND TREATMENT OF
DISEASES IN EGYPT, NORTH AFRICA AND THE MIDDLE EAST AND THE
OF COLLABORATIVE EDUCATIONAL PROGRAMS WITH BIOMEDICAL SCIENTISTS

INT. IMPORTANT PROGRAMS

ICCAL VACCINE STUDY

OMIASIS PATHOPHYSIOLOGY OF

IG FEVER TREATMENT OF

ID VIRUS ISOLATIONS TICKS AND MOSQUITOES

ITC DRUG STUDY OF INFECTIOUS DISEASES

ICONS/EQUIPMENT/CAPABILITIES

TISSUE PROCESSOR HEWLETT-PACKARD MODEL 9100 CALCULATOR PICKER
HAGHASCANNER RENALTRON & ATOMIC ABSORPTION SPECTROPHOTOMETER
U SPECTROPHOTOMETER GAS CHROMATOGRAPH COULTER BLOOD CELL COUNTER
PARATUS CAR DIOGRAPH ELECTRONIC CALCULATOR WANG FLUORESCENT
DE GUILFORD MODEL 240 SPECTROPHOTOMETER ANSCO AUTOCLAVES
HOTOMETERS CENTRIFUGES ANALYTICAL SCANNER AND INTEGRATOR
REVO X-RAY FLUORESCENT SPECTROMETER BALANCES NETTLER
TEN CLIMATIZER WALK 12 REFRIGERATOR AND FREEZER PATIENTS WARD TU
DZE SICK EGYPTIANS PUBLIC WORKS FACILITY WORLD'S MOST COMPLETE
LECTORIUM MODERN LABORATORY TO STUDY DISEASES IN EGYPT.
DETACHMENT IN ETHIOPIA THAT IS ALSO MODERN AND WELL EQUIPPED
WARD SPACES AT THE NEARBY ST. PAUL'S HOSPITAL

ION NAVAL MEDICAL RESEARCH UNIT NO. 4

GREAT LAKES, IL

N62324

C.H. MILLER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + EST)
EF CUREMENT	0.722 0.000 0.000	0.672 0.000 0.000
ER	0.417	0.408
JAL LAB	1.139	1.085
JUSE	1.139	1.085
JUSE ROTCE	0.722	0.677
TRATING COST	0.264	0.240

PERSONNEL DATA (END OF FY 1973)

AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
35	5	15	20
35	1	14	21
70	6	29	41

SPACE AND PROPERTY

SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)				
LAB	ADMIN	OTHER	TOTAL	REAL FRCP	EQUIP
22.053	16.716	18.675	57.744	0.387	0.450

AND D IN BIOMED SCI. PROVIDE DATA ON DISEASE AND MED PROB OF
• RECOMMEND CONTROL MEASURES FOR COMMUN DISEASE. PRCV TRAIN IN
RSCH IN ETIOLOGY, TRANS, CONTROL AND TREAT OF COMMUN RESPIR
ED MED ACT ID EPIDEMIC RESPIR DISEASE. STUD MED PROB OF RECRUIT

IMPORTANT PROGRAMS
AGENTS OF RESPIRATORY DISEASE IN RECRUTTS.

ED IMMUNITY.

FLUENCING INTERFERON RESPONSE.

ACTERIAL AGENTS TO ELIMINATE MENINGOCOCCI IN NASOPHARYNX.

US VACCINES IN RECRUTTS.

US/EQUIPMENT/CAPABILITIES

BY, BIOCHEMISTRY, EPIDEMIOLOGY, IMMUNOLOGY AND VIROLOGY.
REFRIGERATION UNITS, ULTRACENTRIFUGE, LIQUID SCINTILLATION
ILLATOR, SPECTROPHOTOMETERS, ELECTRON SCOPE, GAS CHROMATOGRAPH
BY BIOCHEMISTRY BIOMETRICS EPIDEMIOLOGY IMMUNOLOGY AND
ETOL AND CONTROL OF COMMUNICABLE DISEASE.

1 NAVAL MISSILE CENTER

POINT MUGU, CA.

N63126

MR. M. SCHWARTZ

TECH. DIR. MR. THADDEUS P. PERRY

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + EST)
MENT	31.092	28.599
	15.730	17.794
	10.217	7.262
LAB	64.913	86.267
SE	68.162	68.018
IE FORCE	24.445	27.244
IVING COST	17.040	19.918

PERSONNEL DATA (END OF FY 1973)

AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
445	3	85	360
1776	8	618	1158
2221	11	703	1518

SPACE AND PROPERTY

SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)				
LAB	ADMIN	OTHER	TOTAL	REAL PRCP	EQUIP
110,756	169,569	756,611	1034,936	25,973	39,490

TEST, EVALUATION, DEVELOPMENT SUPPORT AND EXERCISE ENGINEERING
IS ASSIGNED OF NAVAL WEAPON SYSTEMS AND RELATED DEVICE

IMPORTANT PROGRAMS

IN DEVELOPMENT TESTING

ELECTRONIC COUNTERMEASURES RD

COGNIZANCE OF AIR LAUNCHED WEAPONS

AIR-TO-SURFACE MISSILE PRODUCTION TESTING

IMULATION OF AERIAL AND SURFACE TARGETS

EQUIPMENT/CAPABILITIES

TS AND CONDUCT TECH EVALUATIONS OF NAVAL AIRBORNE WEAPONS
E SUBSYSTEMS AND RELATED SUPPORT EQUIP, PERFORM ETS TRIPS
LATED AIRBORNE WEAPONS SYSTEMS PERFORM PROD MONITORING TESTS
SSILE LOIS/PROVIDE ENG COGNIZANCE AND FIELD ENG SERVICES
OPERATIONAL AIRBORNE WEAPONS AND TARGETS SYSTEMS. PROVIDE
MANAGEMENT AND SUPPORT FOR FW EQUIPMENT DURING DEV AND
PERFORM DEV TEE OF AIRBORNE AND SURFACE TARGET SYSTEMS. MAJOR
FRATIONS FAC ROCKET ENGINE TEST FAC INTEGRATED SYSTEMS SIMULA
GETS FAC, PHOTOGRAPHICS FAC INFRARED LASER AND OPTICS LAB

NAVAL ORDNANCE LABORATORY

WHITE OAK, MD.

N60921

HILLIAMSON II TECH. DIR. DR. WILLIAM B. ANSPACHER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

1973 1974

(ACTUAL)	(ACT + EST)
73.594	90.247
13.779	12.822
3.174	2.666
8.247	10.040
98.794	115.783

61.082	66.000
41.623	50.423
24.030	24.484

PERSONNEL DATA (END OF FY 1973)

AUTHORIZED STRENGTH	TOTAL PNS	TOTAL PROF	TOTAL NON-PROF
49	0	20	29
2700	193	1117	1583
2769	193	1137	1612

SPACE, AND PROPERTY

PACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
LAB 604.978	185.506
ADMIN 185.756	757.756
OTHER 1348.240	48.775
TOTAL 1348.240	45.770

NAVAL NAVY R&D CENTER FOR ORDNANCE TECHNOLOGY, CONCEPTS
ABILITIES FOR STRATEGIC SYSTEMS, NAVAL MINE SYSTEMS, MULTI-
SYSTEMS, DIRECTED ENERGY SYSTEMS, FUZE DEVEL, INSHORE WARFARE,
RAFT ARMAMENT, SWIMMER WEAPONS SYSTEMS, OHD, TECHNOLOGY

MAINTENANCE PROGRAMS

RESEARCH AND DEVELOPMENT
TECHNOLOGY

EQUIPMENT/CAPABILITIES
HIGH 200 BALLISTICS RANGES FOR FREE FLIGHT MODEL
BALLISTIC TANK 1.75 MILLION GALLON CAPACITY FOR STUDY OF
E MODELS AT HIGH SPEED ENTRY/CELENTRIFUGE TO STUDY U/W
ABILITIES FOR TESTING AND RESEARCH IN THE CHEMISTRY OF
PROPELLANTIC, EXTENSIVE LABORATORY AND FIELD FACILITIES
STUDY UNDER NATURAL AND/OR SIMULATED CONDITIONS
JRC FACILITY TO STUDY MAGNETIC CHARACTERISTICS OF SUM-
AND SATELLITES HIGH-ARC FACILITY, CDC 6600 COMPUTER
Y, VULNERABILITY AND HARDENING BUILDING, HYDROACOUSTIC

NAVAL ORDNANCE MISSILE TEST FACILITY WHITE SANDS N.M., N.M.

N61762

DE ARMED CH. ENG. DR. W.M. BOHN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973	1974
ACTUAL	(ACT + EST)	
INENT	2.171	2.157
0.319	0.405	
0.000	0.000	
1.622	1.546	
4.112	4.107	
3.412	3.385	
1.605	1.653	
1.067	0.958	

PERSONNEL DATA (END OF FY 1973)

AUTHORIZED	TOTAL	TOTAL	NON-
STRENGTH	PHDS	PROF	PROF
153	2	31	122
82	1	5	77
235	3	36	199

SPACE AND PROPERTY

SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)					
LAB	ADMIN	OTHER	TOTAL	REAL	PROP	EQUIP
86.310	30.560	236.240	354.090	6.673	3.369	

NAVY GUIDED MISSILE AND ROCKET PROGRAM INCLUDING GROUND AND
AIRCRAFT PARTICIPATE IN THE OPERATION OF THE DEPT OF DEFENSE
MISSILE TEST AT WHITE SANDS

IMPORTANT PROGRAMS
TITLE 2 SLANT AEGIS

EQUIPMENT/CAPABILITIES
TALOS, TERRIER, TARTAR, STANDARD, SAM GUIDED MISSILES
TALOS, STANDARD ANTI RADIATION MISSILES
EE 150, 170, 350 SOUNDING ROCKETS FOR UPPER ATMOS STUDY
AIR WEAPON (HOMBO) TESTS
LOW ALT SUPERSONIC TARGETS
B10 DEVELOPMENT TEST FOR SSH AND SAM PROJECTS
B15 ROCKETS IN SUPPORT OF NASA PROJECTS
B100N SYS EVAL OF F-16 PROGRAM

INSTALLATION NAVAL RESEARCH LABORATORY

WASHINGTON, D.C.

NOOL73

C.O. CAPT JOHN T. GEARY

DIR. OF R&D. DR. ALAN BERMAN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (FACTUAL)	1974 (ACT + EST)
TOTAL R&D	158.918	165.995
TOTAL PROCUREMENT	16.943	1.018
TOTAL G&M	4.709	1.451
TOTAL OTHER	6.773	3.411
TOTAL ANNUAL LAB	197.343	171.895
TOTAL INHOUSE	180.655	168.958
TOTAL INHOUSE R&D	153.629	163.118
ANNUAL OPERATING COST	33.503	34.027

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PROF	NON- PROF
MILITARY	117	1	11	76
CIVILIAN	4026	601	1769	2238
TOTAL	4143	602	1880	2314

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP
2133	2240.860	135.656	637.259	3013.755	79.067	67.062

...MISSION
TO CONDUCT A BROADLY BASED MULTIDISCIPLINARY PROGRAM OF SCIENTIFIC
RESEARCH AND ADVANCED TECHNOLOGICAL DEVELOPMENT DIRECTED TOWARD NEW AND
IMPROVED MATERIALS, EQUIPMENT, TECHNIQUES, SYSTEMS, AND RELATED
OPERATIONAL PROCEDURES FOR THE NAVY.

...CURRENT IMPORTANT PROGRAMS
FLEET SATELLITE COMMUNICATIONS
EFFECTIVENESS OF NAVAL ELECTRONIC WARFARE SYSTEMS
HIGH ENERGY LASER, GENERATION, PROPAGATION, AND EFFECTS PROGRAM
SATELLITE PROGRAMS
ADVANCED ACOUSTIC ANTI-SUBMARINE WARFARE SURVEILLANCE PROGRAM

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PRINCIPAL RESEARCH AND DEVELOPMENT LABORATORY OF THE NAVY. PRIMARY AREAS
ARE MATERIALS SCIENCE AND TECHNOLOGY, SPACE SCIENCE AND TECHNOLOGY,
RADAR, ELECTRONIC WARFARE, LASER TECHNOLOGY, OPTICS, OPTICAL WARFARE,
ELECTRONIC DEVICES, PLASMA AND NUCLEAR PHYSICS, INTELLIGENCE SUPPORT,
UNDERSEA SURVEILLANCE, OCEAN SCIENCE AND TECHNOLOGY. MAJOR FACILITIES
INCLUDE TWO SHIPS FOR ACOUSTIC ASW RESEARCH, OCEANOGRAPHY, AND DEEP
OCEAN SEARCH, MAJOR ACOUSTIC STANDARD AND CALIBRATION FACILITIES, HIGH
LEVEL RADIATION LABORATORY, THREE NUCLEAR PARTICLE ACCELERATORS, DIVERS
HIGH ENERGY LASERS, 200 KILOGAUSS HIGH FIELD MAGNET FACILITY, SPACE
SIMULATION FACILITIES.

INSTALLATION NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER WASHINGTON, D.C.

N00167

COM. CAPT P.H. NELSON

TECH. DIR. DR. A. POWELL

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	96.703	169.186
TOTAL PROCUREMENT	1.597	0.847
TOTAL CGN	0.530	0.260
TOTAL OTHER	31.008	9.050
TOTAL ANNUAL LAB	289.638	168.231
TOTAL INHINISF	60.377	66.271
TOTAL INHOUSE RDT&E	46.947	51.437
ANNUAL OPERATING COST	52.728	22.875

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL	MIN- PROF
	AUTHORIZED STRENGTH	TOTAL PROFS		
MILITARY	62	0	25	37
CIVILIAN	2995	107	2250	1645
TOTAL	2957	107	1275	1682

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)			LAM	ADMIN	OTHER
296	393.522	198.164	1405.876	1957.562	66.850	46.861

...MISSION
TO BE THE PRINCIPAL NAVY R&D CENTER FOR NAVAL VEHICLES AND TO PROVIDE
R&D SUPPORT TO THE U.S. MARITIME ADMINISTRATION AND THE MARITIME
INDUSTRY.

...CURRENT IMPORTANT PROGRAMS

HYDROFOIL SYSTEMS (PHM SUPPORT)
AMPHIBIOUS ASSAULT LANDING CRAFT (AAIC)
SUBMARINE SPEED AND CONTROL IMPROVEMENT
HIGHLY SKINED PROPELLER DEVELOPMENT
SUBMARINE SILENCING

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PLAN AND CONDUCT R&D AND PROVIDE SUPPORT TO THE OPERATING FORCES AND
NAVAL AND GOVERNMENT AGENCIES AS ASSIGNED IN THE AREAS OF HYDROMECHANICS
, STRUCTURAL MECHANICS, ACOUSTICS & VIBRATIONS, AERODYNAMICS, APPLIED
MATHEMATICS, SHIPS ATMOSPHERE CONDITIONING AND POLLUTION CONTROL, SHIP
ELECTRICAL SYSTEMS, AND SHIPBOARD MACHINERY SYSTEMS. FACILITIES INCLUDE:
BALLAST TANK FACILITY, HIGH SEAWATER PIPING SYSTEM FACILITY, COMPUTER
FACILITY, HIGH SPEED, DEEP AND SHALLOW WATER, MANEUVERING SEAKEEPIING,
AND ROTATING ARM TUNING BASIN, SUBSONIC, TRANSONIC, SUPERSONIC, AND
HYPERSONIC WIND TUNNELS, ACOUSTIC DATA ANALYSIS CENTER, ANECHOIC FLUX
FACILITY, DEEP SUBMERSION PRESSURE TEST TANK, MAGNETIC FIELD TEST FACILITY
& WELDING ANALYSIS FACILITY, AND STRUCTURAL RESEARCH FACILITY.

INSTALLATION NAVAL SPACE SYSTEMS ACTIVITY

LOS ANGELES, CA.

N63576

C.O.O. CAPT D.G. FAULKNER JR. TECH. ADV. DR. F.E. MUEHLNER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	4,006	4,397
TOTAL PROCUREMENT	1,445	1,400
TOTAL DCM	0,209	0,200
TOTAL OTHER	0,424	0,330
TOTAL ANNUAL LAB	6,684	6,327
TOTAL INHOUSE	1,074	1,110
TOTAL INHOUSE RDT&E	0,700	0,700
ANNUAL OPERATING COST	0,000	0,000

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHRS	TOTAL PROF	NON- PROF
MILITARY	15	1	15	0
CIVILIAN	34	1	27	7
TOTAL	49	2	42	7

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAM	ADMIN	OTHER	TOTAL	REAL FREQ	EQUIP
0	0,000	1,595	3,233	4,828	0,000	0,022

MISSION
PRIV FOR DEVLEMT ASSIGNED SPACE SYS PROV FOR INTERFACES BTWN SPACE SYS
AND OTHER NAVY SYS CONDUCT LONG RNG STUDIES AND DEVLPMTS REPRESENT HHR
NAVSPACEMB AND COMNAVFLC/SCOM TO CDR AF SAMSO PROV HGT ENGR PLANS
RELATED TO JT SVC DEVELOPMENTS COORD WITH SAMSO ON PROGS OF MUTUAL INTERES

CURRENT IMPORTANT PROGRAMS
SATELLITE OCEAN SURVEILLANCE
SHIPBOARD REPOINT EQUIPMENT
FLEET SATELLITE COMMUNICATIONS
SPACE SHUTTLE PROGRAM
OBD SPACE TEST PROGRAM

FUNCTIONS/EQUIPMENT/CAPABILITIES
INITIATE PLAN AND EXECUTE SPACE PROJECTS AS ASSIGNED
PRINCIPAL TECH. COST & EFFFC STUDIES & ASSOC ENG MGMT & FINANCIAL PLANS
RESPONS FOR MISSION AREAS IN WHICH USN PARTICIPATES AS HHR JT SVC EFFORT
CHHR ASSIR USN SPT EFFORT TO DOD & NASA SPACE RELATED PROGRAMS
FICAL POINT FOR NAVY SPACE EXPERIMENTS
SINGLE POINT OF CONTACT WITH USAF SAMSO FOR ALL SPACE MATTERS
CHHR SPT PROVIDED OTHER USN ACTIVITIES TO AREAS NSSA RESPONSIBLE
SUCH OTHER RESPONS AS ASSIGNED BY COMPETENT AUTHORITY

INSTALLATION NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY GRC/CA CT

N61726

DIR. COM R.L. SPHAR

SCS. DIR. DR. C.F. GELL

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		1974 (ACT + EST)
	ACTUAL	EST	
TOTAL RUTEE	1.426	1.529	
TOTAL PROCUREMENT	0.000	0.000	
TOTAL DEM	0.000	0.000	
TOTAL OTHER	0.440	0.450	
TOTAL ANNUAL LAB	1.876	1.979	
TOTAL INHABIT	1.876	1.979	
TOTAL INHABIT RUTCE	1.426	1.529	
ANNUAL OPERATING COST	0.045	0.056	

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL		TOTAL PROF	NON- PROF
		PMNS	PROF		
MILITARY	37	0	26	23	
CIVILIAN	66	12	33	33	
TOTAL	103	20	59	56	

ACRS	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	CAB	ADMIN	OTHER	TOTAL	REAL	EQUIP
6	23.325	6.441	13.118	42.886	6.000	1.002

MISSION
TO CONDUCT BASIC AND APPLIED RESEARCH IN SUBMARINE AND DIVING MEDICINE, CLIMBED ENVIRONMENTS IN AREAS OF PHYSIOL-MEDICAL, PSYCHOL-VISION, AUDITION, HUMAN FAC.ENG., DENTISTRY, VIL. APPLICATIONS, TO MEET NAVY REC., AND FURNISH RES- AND MEDICAL ASSISTANCE TO SUB AND DIVING SHORE AND FLEET ACTIVITIES.

CURRENT IMPORTANT PROGRAMS

1.EFFECTS OF ENVIRONMENTAL STRESS ON SUBMARINE PERS. A PROGRAM OF HABITABILITY STUDIES IN THE LAB AND AT SEA 2.ESTABLISHMENT OF PHYSIOLOGICAL LIMITS IN SATURATION-EXCURSION DIVING 3.LONGITUDINAL HEALTH STUDY OF SUB AND DIVING PERS. 4.ORN. HEALTH EFFECTS OF SUB ENVIRONMENT AND PREVENTIVE CARE 5.SELECTION AND RETENTION OF SUBMARINE AND DIVING PERSONNEL.

FUNCTIONS/EQUIPMENT/CAPABILITIES

HYPBARIC CHAMBERS, HUMAN-130PSI, ANIMAL, 300 PSI, 1000 PSI, ENVEN. CONTROL CHAMBERS, UNDERWATER VISION TEST POOL, ANECHOIC SUITE, MOBILE BIC-ACOUSTIC VAN, ANIMAL CARE-HOUSING FAC., GROUPURAL M.FAC., RES.FAC., DENTAL OPERATORY, INCUBATOR-INCUBATION FAC., APPARATUS-MODEL SHIP, TECH. LAB., DATA PROC., GRAPHIC ARTS-PHOTO LAB., PUB.HUP. FAC., RADIOSISOTOPE HANDLING-STORAGE FAC., DATA COMM- LOGGING SYST., DIGITAL COMPUTER, ANALOG CRYPTO., HI-PRESS, REACTION VESSEL, BIOTELEMETRY SYST., MASS SPICS., ACOUSTIC ABSORP., SPINTR., GAS CHROMATOGRAPH, BODY PLETHYSMOGRAPH, TREADMILL, PORT-X-RAY SYST., TECHNICON AUTOCANAL, SURGICAL SUITE, HISTO-PATHOL. LAB, BIOCHEM LABS, BIOENG. LAB, UL. FUNC. EXERCISE LAB, CARDIOPUL., BLOOD ANAL. LAB, COMP. AUTOCHEM HU. FAC. ENG. LABS, MULTI-CHANNEL MAG-TAPE SYST, CLSA CIRCUIT, TV SYST, REFRIG.HI SPEED CENTRIFUGE, NITROGEN FREEZE, HUT, PLUMEDIC CONTR., GENERAL, AIR ION MONITORING SYST.

INSTALLATION NAVAL UNDERSEA CENTER

SAN DIEGO CA

4464001

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	PROGRAM BUDGET - BUDGET VERSUS ACTUAL		
	1973 (ACTUAL)	1974 (ACT + EST)	1975 (ACT + EST)
TOTAL RDGCE	50.317	53.606	
TOTAL PROCUREMENT	9.577	6.441	
TOTAL OEM	9.069	10.561	
TOTAL OTHER	8.493	7.101	
TOTAL ANNUAL LAB	77.858	77.769	
TOTAL INHMSE	49.154	49.865	
TOTAL INHMSE RDGCE	33.238	34.705	
ANNUAL OPERATING COST	19.701	19.496	

PERSONNEL	PERSONNEL DATA (END OF FY 1973)			NON- PROF
	AUTHORIZED STRENGTH	TOTAL PHMS	TOTAL PROF	
MILITARY	205	0	14	271
CIVILIAN	1,645	98	682	963
TOTAL	1,930	98	696	1234

WORKS SPACIAL PROGRAMS OF JET PROPULSION LABORATORY, CALIFORNIA
LAB ADMIN OTHER TOTAL REAL PRCP. EQUIP
36447 277.707 51.775 + 612.582 942.664 40.627 49.056

...CURRENT IMPORTANT PROGRAMS
ADV U/S SURVEILLANCE INC SUSPENDED & CROWDED ARRAYS, FIXED DESTROY
SYS, TCF OF MAJOR SIMUL SYS. ADV SONAR TEKNIKS, FLEET SONAR SYS IM
PROVMT. ASW WEAPONS SYS DEV, EG ADV TORPEDO TECHNOL, SUB LAUNCHED
MISSILE TECHNOL, FIRE CONTROL SYS; ACOUSTIC C/M MARINE BIOSYS. USN
ECHAN RSCN, OCEAN ENGRG, EG UNMANNED REMOTE U/S MKNG SYS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
UNDERSEA SURVL. UNDERSEA/SURFACE WEAPONS & FIRE CONTROL SYS, LMT TORPEDOES, HIGH SPEED VEHICLE & HIGH RESOLUTION SONARS, UW ACOUSTIC WARFARE SYS, REMOTE CONTROL UA SYS, OCEAN TECHNO & EMGRG, MARINE BIOSCI, MAR MAMMAL SYS, ACOUSTIC PROPAGATION (PAC/ARC), PACFLT ASW SUPPT, ARCTIC SUBMARINE SYS, RUTGE LABS SDIEGO, PASADENA, HAWAII & MAR BICSCI FACS, SEA TEST/EMGRG RANGES SAN CLEMENTE IS, MORRIS DAM, LBEACH, CALIFORNIA STA, ARCTIC FIELD STA, ALASKA & ARCTIC SUB LAB & POLAR ICE SIMULATOR, TRANSDUCER EVAL CTR ANECHOIC ALL FREQS, ASW COMPUTER SIM CTR, RSCN SHIPS & CRAFT INCL USNS SP LEE T-AG-192, DATA ACQ, PLAYBACK & ANAL FAC FOR DEV/EVAL OF SIG PROG TECHNICS, RESCUE SYS TEST FAC & DEV/TEST FACS FOR LMT AIRDROP TORPEDOES, UNMWD REMOTE U2S WORK SYS EG CABLE CONTROL UN RECOVERY VEHICLE, PALM VINEY SUMMERS, UW OBSERV PLATFORMS, VAR ANGLE LAUNCHER.

INSTALLATION: NAVAL UNDERWATER SYSTEMS CENTER

NEWPORT, R.I.

046604

C.O. CAPT H.C. McFARLAND

TECH. DIR. MR. HAROLD NASH

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 FAC/MLD	1974 FAC/EST)
TOTAL R&D	47.684	61.575
TOTAL PROCUREMENT	20.821	37.418
TOTAL CLM	20.277	24.777
TOTAL OTHER	12.332	14.370
TOTAL ANNUAL LAB	107.114	139.160
TOTAL INHOUSE	87.649	110.053
TOTAL INHOUSE R&D	40.356	51.225
ANNUAL OPERATING COST	20.253	24.161

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTOMIZED STRENGTH	TOTAL		TOTAL PROF PERCENT	NON- PROF
		PROFS	NON- PROF		
MILITARY	170	2	41	137	
CIVILIAN	3325	79	1450	1475	
TOTAL	3503	81	1491	2012	

ACRES	SPACE AND PROPERTY			COST (MILLION \$)			
	LAND	ADMIN	OTHER	TOTAL	REAL	PROP	EQUIP
360	760.959	107.328	739.019	1627.306	29.015	24.646	

MISSION
TO BE THE PRINCIPAL NAVY R&D CTR FOR UNDERWATER COMBAT SYSTEMS.

CURRENT IMPORTANT PROGRAMS

DEVELOPMENT OF UNDERWATER ACOUSTIC THEORY MODELS & SIMULATION TECHNIQUES
DESIGN, DEVELOPMENT AND EVALUATION OF UNDERWATER WEAPON AND TARGET SYSTEM
MAINTAIN PRIMARY R&D CAPABILITY FOR SONAR SYSTEMS HULL MOUNTED AND TOWED
DESIGN/PERFORM UNDERWATER RANGING EXPERIMENTS AND EVALUATION OF DATA
INTRODUCTION OF MK68 INTO FLEET

FUNCTIONS/EQUIPMENT/CAPABILITIES

SONAR SYSTEMS/HULL/MOUNTED/TOWED/SIM COMMANDS SYSTEMS INTEGRATE IN/OUT SUB
ANTENNA SYSTEMS/UNDERWATER WEAPON SYSTEMS/EXPT MINES & STRGCS SYSTEMS/UNMNTD
TARGET SYSTEMS/UNDERWATER ACOUSTIC PROPAGATION-LAB OCH & NEW C/UNMBD/PA/CE
TECHNLGY/READINESS OF IN-SERV SHIPBOARD-UNDERWATER SYSTEMS/ASH SUPPLS

TRPOU TST RNGS(FIXED & PTBL) SHALW & DEEP LTR/ASH MPH FIRE CCNTL RE-
SEARCH & DVLPMNT FCILTY/ASH MPH LNCING DEVIC RNSCH & DVLPMNT FCILTY/CL-
EITY ENGRNG EVALUTN & RELIAB LAB/BERMUDA RNSCH FCILTY/ASH PROPLN
TST FCILTY/ELECTRMNT FCILTY FISH ISLD/ SYSTEM CERTFCN & INTEGRATA FCILTY/
ACSTC HSMMNT & TRANSCT RNSCH & EVLTN FCILTY LAK SENICA DODG END & PLSTN
QRY/NSRGNST BY TRPOU TST RNG/ ELUTMRA INSTANTN SHOTR ELUTMRA ISLD RASH
/ATLNTC UNDRG TST & EVLTN CNTL/ASRS FWD ACSTC HSMMNT & PLSTN FCILTY/CP&E RNDY

ALLATION NAVAL UNIT, FORT DETRICK

FREDERICK, MD.

N60755

CAPT R.W. SWANSON

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

ITEM	1973		1974	
	FACTUAL	(ACT + EST)	FACT	EST
II. R&D	0.091	0.083		
II. PROCUREMENT	0.000	0.000		
II. CEM	0.000	0.000		
II. OTHER	0.133	0.135		
II. ANIMAL LAB	0.224	0.218		
III. INHABIT	0.224	0.218		
III. INHABIT R&D	0.091	0.083		
III. OPERATING COST	0.878	0.135		

PERSONNEL DATA (END OF FY 1973)

STAFF	AUTHORIZED STRENGTH	TOTAL		ADM- PROF
		PHDS	PROF	
STAFF	16	2	6	10
TECH	0	0	0	0
TOT	17	2	6	10

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
0	3.830	2.541	0.000	6.371	0.000	0.076

MISSION
PROVIDE INDEPTH BIO-MEDICAL RESEARCH JOINTLY WITH THE DEPT OF DEF
SCIENTIFIC BIOLOGICAL EFFECTS OF NON-IONIZING RADIATION
JOINT DEFENSE AGAINST CHEMICAL AGENTS
DETERMINE NON-IONIZING RADIATION HAZARDS AND DETERMINE SAFETY STANDARDS

CURRENT IMPORTANT PROGRAMS
SEARCH AND DEVELOPMENT OF VACCINES TO INFECTIOUS AGENTS
DETECTION AND CONTROL OF AIRBORNE DISEASES
JOINT IN THE BIOLOGICAL EFFECTS OF NON-IONIZING RADIATION
DEVELOPMENT OF RADIO-IMMUNOLOGICAL ASSAY METHOD FOR ATROPHINE
DEVELOPMENT OF DECONTAMINATION PROCEDURES FOR HOSPITAL EQUIPMENT/SPACES

FUNCTIONS/EQUIPMENT/CAPABILITIES
AND IDENTIFICATION TECHNIQUES OF VIRUSES

STALLATION NAVAL WEAPONS CENTER

CHINA LAKE, CA.

460530

1. RADM V. PUGH

TECH. DIR. MR. LEROY RIGGS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973	1974
DEGRADATION	1573	1574
(FACTUAL) (FACT + EST)		
TAI R&D	101.700	122.125
TAI PROCUREMENT	37.936	33.351
TAI DEM	7.687	7.426
TAI OTHER	33.749	35.706
TAI ANNUAL LAB	186.672	198.808
TAI INHOUSE	114.520	121.830
TAI INHOUSE R&D	62.349	70.860
INITIAL OPERATING COST	44.674	46.654

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	677	0	75	602
CIVILIAN	4412	137	1700	2704
TOTAL	5089	145	1775	3306

ACRES

SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)			
LAB	ADMIN	OTHER	TOTAL	
03019	722.689	181.001	3782.083	6605.475
				224.090
				61.730

MISSION
THE MISSION OF THE NAVAL WEAPONS CENTER IS TO BE THE PRINCIPAL NAVY
R&D CENTER FOR AIR WARFARE AND MISSILE WEAPON SYSTEMS.
THE FUNCTIONS ARE TO ESTABLISH AND MAINTAIN THE PRIMARY IN-HOUSE
RESEARCH AND DEVELOPMENT CAPABILITY FOR NAVY AND MARINE CORPS SYSTEMS.

EQUIPMENT/IMPORTANT PROGRAMS
ASLE - ADVANCED SHORT RANGE AIR - TO - AIR MISSILE SYSTEM.
HIM - HIGH SPEED ANTI-RADIATION MISSILE.
E - FUEL AIR EXPLOSIVE.
HARM AIR-TO-SURFACE MISSILE SYSTEM, WITH STAND-OFF CAPABILITY.
HDL - GUIDED, AIR-LAUNCHED INTERCEPTOR MISSILE.

FUNCTIONS/EQUIPMENT/CAPABILITIES
SYSTEMS AND TECHNOLOGIES IN SUCH AREAS AS: STRIKE, AIRCRAFT/WEAPON
SYSTEMS AND CONCEPT DEVELOPMENT; AIR-LAUNCHED WEAPONS AND ASSOCIATED
GUIDANCE SYSTEMS; TACTICAL MISSILES (ANTI-SHIP CRUISE MISSILES AND POINT
DEFENSE MISSILES); PROPULSION, GUIDANCE AND CONTROL, WARHEAD, FUSE, AND
LAUNCH AND HANDLING EQUIPMENT SUBSYSTEMS FOR THE AFOREMENTIONED
SYSTEMS; STRIKE WARFARE COUNTERMEASURES AND WEATHER MODIFICATION.
CAPABILITIES INCLUDE: NICHOLSON LABORATORY; ELECTRONIC WARFARE RANGE;
LID STATE DEVICES LABORATORY; FINE TEST RANGE; PROPULSION RESEARCH
LABORATORIES; MICROELECTRONICS FACILITY; EXPLOSIVES RESEARCH AND
DEVELOPMENT FACILITY; GROUND AND AIRCRAFT RANGES; EXTERIOR AND TERMINAL
BALLISTICS RANGES; NAVAL AIR FACILITY; AIRCRAFT SURVIVABILITY FACILITY;
PERSONNEL TEST TRACTS; MICROWAVE ANEMOMIC FACILITIES.

INSTALLATION: NAVAL WEAPONS EVALUATION FACILITY ALBUQUERQUE, N.M.

W6264

C.D. CAPT R.H. STOLPF TECH. DIR. MR. F. K. MISHNER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)
1973 1974
ACTUAL (ACT + EST)
TOTAL R&D 0.956 1.082
TOTAL PROCUREMENT 0.732 0.772
TOTAL O&M 0.886 0.934
TOTAL OTHER 2.771 2.668
TOTAL ANNUAL LAB 9.385 9.656
TOTAL INHOUSE 5.385 5.456
TOTAL INHOUSE R&D 0.996 1.082
ANNUAL OPERATING COST 0.686 0.681

PERSONNEL PERSONNEL DATA (END OF FY 1973)
AUTHORIZED TOTAL TOTAL NON-
STRENGTH PMDS PROF PROF
MILITARY 824 0 39 155
CIVILIAN 98 1 42 56
TOTAL 292 1 81 211

ACRES SPACE AND PROPERTY COST (MILLION \$)
SPACE (THOUSANDS OF SQUARE FEET) LAB ADMIN OTHER TOTAL REAL PRCP EQUIP
7 0.400 53.592 48.196 152.180 7.400 0.450

...MISSION TEST-EVALUATE-SUPPORT NUCLEAR/DESIGNATED NUC-NUC WPNS/WPN SYSTEMS. ADVISE CNO IN PROMOTING-MONITORING NUC WPN SAFETY. PLAN-CONDUCT NUC WPN SYSTEM SAFETY STUDIES/RVWS. ASSIST BD OF INSP/SURVEY IN EVAL OF NUC WPN/AIRCRAFT /SHIPS. PROVIDE A/C CHECKLISTS/LOG MAN FOR NUC/DESIGNATED NUC-NUC WPNS.

...CURRENT IMPORTANT PROGRAMS PREPARING CHECKLISTS/LOG MANUALS FOR F-16 A/C AND MARRIER WPN SYSTEM. CONDUCTING EVAL OF ATE COMPUTER DELIVERY OF NUC WPNS. CONDUCTING FAULT TREE SAFETY ANALYSIS OF MK48 TORPEDO. EVALUATING NUC SAFETY OF ASROC WPN SYSTEM ON NO963 CLASS SHIPS. PARTICIPATING IN EARLY DEVELOPMENT OF XM517 AND XM673 NUC PROJECTILES, SM-2 AAM MISSILE, AND MK400 AND MK500 FBMS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES CONDUCT OF NAVY NUC WPNS/EVALUATION, TEST, VULNERABILITY, COMPATIBILITY AND SAFETY PROGRAMS/SAFETY STUDIES AND RVWS/FEASIBILITY STUDIES FOR FUTURE SYSTEMS/SAFETY SURVEYS AND SYMPOSIA. PREPARATION OF NUC WPNS: A/C CHECK LISTS AND LOG MANUALS, MILITARY CHARACTERISTICS AND STOCKPILE-TO-TARGET SEQUENCES, SAFETY ANALYSES, NUC-ELECT INTERFACE DWGS, EMERGENCY DESTROY PROCEDURES, NUC SAFETY PERIODICAL. PARTICIPATION IN NUC WPNS: BD OF INSP AND SURVEY TRIALS OF A/C AND SHIPS, EFFECTS TESTS, PROTECTIVE EQUIPMENT PROGRAM, DEV OF A/C BOOS AND SUSPENSION-RELEASE-ARMED EQUIP, PHASE I AND II STUDIES. PROVIDE: FLIGHT SERVICE TO THE AEC, SUPPORT TO THE NUC-JAIDS, ENGINEERING-TECHNICAL-FIELD TO SYSTEM COMMANDS/PROJECT OFFICES, A/C AND INHLG EQUIPMENT MAINTENANCE, NUC WPN LIAISON TO AEC-DNA-CONTRACTORS-FLEETS-FIELD ACTIVITIES.

ATION NAVAL WEAPONS LABORATORY CAMP GROVE, VA.

NOV 78

CAPT R. E. WEEKS JR. TECH. DIR. MR. JAMES E. COLVARD

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

AN	1973 (ACTUAL)	1974 (ACT + EST)
ROTCE	37.870	51.028
PROCUREMENT	33.889	25.190
COM	11.646	11.090
OTHER	13.061	13.371
ANNUAL LAB	96.466	100.679
INHOUSE	77.453	75.430
INHOUSE ROTCE	30.570	41.433
L. OPERATING COST	12.167	16.876

PERSONNEL DATA (END OF FY 1973)

ENCL	AUTHORIZED STRENGTH	TOTAL FMS	TOTAL PROF	NON- PROF
ARY	84	2	41	43
IAN	2916	77	1135	1781
	3000	79	1176	1824

SPACE AND PROPERTY
ES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

ES	LAB	ADMIN	OTHER	TOTAL	REAL	PROP	EQUIP
20	492.855	73.655	808.755	1373.265	103.050	35.162	

SSION
ICTS A PROGRAM OF WARFARE ANALYSIS, RESEARCH, DEVELOPMENT, TEST,
ATION, SYSTEMS INTEGRATION, AND FLEET ENGINEERING SUPPORT IN NAVAL
INS SYSTEMS, PRINCIPALLY FOR SURFACE WARFARE, AND CONDUCTS SUPPORTIVE
IAMS IN OTHER WARFARE AND FIELDS OF TECHNOLOGY.

URRENT IMPORTANT PROGRAMS
ED RANGE EQUIPPED PROJECTILE AND AMMUNITION PROGRAMS
ROMAGNETIC WARFARE SYSTEM
ENCE DATA FOR POLARIS/POSEIDON/URMS/FBM SYSTEMS PROGRAMS
GED GUNS/WEAPONS SYSTEMS
TAL FIRE CONTROL SOFTWARE/HARDWARE PROGRAMS

INCTIONS/EQUIPMENT/CAPABILITIES
CAPABILITIES SUPPORT WORK IN TACTICAL, STRATEGIC, AMPHIBIOUS AND MINE
ARE ANALYSIS, SYSTEMS EFFECTIVENESS STUDIES, SATELLITE GEODESY,
TAL FIRE CONTROL SYSTEMS, COMPUTER SCIENCES, ROTCE IN WARFARE AND
ACE LAUNCHED WEAPONS/ELECTROMAGNETIC WARFARE/MISSILE GUIDANCE,
BNS CONTROL MATERIALS AND INSTRUMENTATION RESEARCH/WEAPONS SAFETY,
L. FABRICATION/PRODUCT ENGINEERING/ELECTRONIC AND APPLIED PHYSICS,
INTERIOR, EXTERIOR AND TERMINAL BALLISTICS/HEMISFERE AND MUNITIONS R&D
LITIES INCLUDE WARFARE ANALYSIS CENTER AND COMPUTATION FACE FIRE
RDL PROGRAM ASSURANCE FACE/FBM DISC PACK PRODUCTION FACE/EXPLOSIVE
CTS EVALUATION COMPLEX/CHM/BIO DEFENSE LAB COMPLEX/SPECIAL EFFECTS
FACE/GUNNERY AND MISSILE RANGE COMPLEX/NAVAL GUN EVAL FACE/EPPASS
BRT FACE/ELECTROMAGNETIC VULNERABILITY TEST FAC.

LATION NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO, CA

46316

APT R.J. ARTHUR SCI. DIR. DR. W. WILKINS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)
1973 1974
(ACTUAL) (ACT + EST)
RDT&E 1.347 1.517
PROCUREMENT 0.000 0.000
OCM 0.000 0.000
OTHER 0.415 0.459
ANIMAL LAB 1.762 1.976

INHOUSE 1.677 1.891
INHOUSE RDT&E 1.357 1.517
OPERATING COST 0.150 0.170

PERSONNEL DATA (END OF FY 1973)
INEL AUTHORIZED TOTAL TOTAL NON-
STRENGTH PHDS PROF PROF
JUN 20 11 14 6
JAN 58 9 28 30
JUL 78 20 42 36

SPACE AND PROPERTY
ES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)
LAB ADMIN OTHER TOTAL REAL PROF EQUIP
0 11.177 4.500 0.000 19.677 0.000 0.354

SESSION
DT NEUROPSYCHIATRY RESEARCH AS APPLIES TO NAVAL SERVICE
DP STUDY PLAN ON REPATRIATED PRISONERS OF WAR

RECENT IMPORTANT PROGRAMS
TRESS AND HEART DISEASE IN NAVY OFFICERS AND PETTY OFFICERS
S. TOLERANCE DIFFERENCES AMONG NAVAL PERSONNEL
CP COMPUTERIZED PSYCHIATRIC DATA SYSTEM FOR NAVAL SERVICE
LINTS FOR PSYCHIATRIC TREATMENT AND DISPOSITION OF NAVAL PERSONNEL
CAL FITNESS STANDARDS PREDICTING MILITARY EFFECTIVENESS

INSTRUCTIONS/EQUIPMENT/CAPABILITIES
SIS OF UNDERWATER PSYCHOPHYSIOLOGY PROGRAMS AND TASK
EYE ECG COMBINED USE FOR SINGLE SEIZURE STUDY AND SLEEP DEPRIVATION
NE ECG RECORDING CAPABILITIES

ION NAVY PERSONNEL RESEARCH & DEVELOPMENT CENTER SAN DIEGO, CA

H68221

F.L. NELSON TECH. DIR. DR. J.J. REGAN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + EST)
LE DUREMENT	6.200	8.843
ER	0.160	0.000
BAL LAB	0.977	0.301
DIUSE	2.076	0.653
DIUSE ROTC	9.393	9.797
ERATING COST	0.467	7.147
	5.687	6.343
	1.233	0.806

PERSONNEL DATA (END OF FY 1973)

AUTHORIZED STRENGTH	TOTAL PIDS	TOTAL PROF	NON- PROF
33	0	34	1
289	45	151	138
322	45	185	139

SPACE AND PROPERTY

SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)				
LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
47.300	4.900	0.000	52.200	0.210	0.295

IN
L NAVY ROLE ORGANIZATION FOR ADVANCING AND APPLYING SCIENCES AND
CIES REQUIRED TO SUPPORT OPERATIONAL AND RESEARCH REQUIREMENTS
HER, PERSONNEL, EDUCATION/TRAINING, COORDINATION ORGANIZATION
ROLE CONDUCTED IN SUPPORT OF THESE REQUIREMENTS.

NT IMPORTANT PROGRAMS
MANAGEMENT EFFECTIVENESS
KI AND TRAINING DEVELOPMENT
L TRAINING
L MANAGEMENT
IENT RESEARCH AND EXPLORATORY DEVELOPMENT IN PERSONNEL AND TRAIN.

ONS/EQUIPMENT/CAPABILITIES
DATA PROCESSING COMPUTER SYSTEM WITH REMOTE JOB ENTRY CAPABILI-
IBM 360/65 LOCATED AT THE NAVAL ELECTRONICS LABORATORY CENTER.
SCANNER
ENTAL TESTING AND TRAINING FACILITIES
T STATIONS
IX GRAPHIC TERMINALS INTERFACING TO AN IBM 360/1 COMPUTER LOCATED
DIEGO STATE UNIVERSITY, PLANNED TERMINAL INSTALLATION IN 3RD
FY1974.

ITION NAVY TOXICOLOGY UNIT, NMNC

BETHESDA, MD.

NOT50A

P. L. J. JENKINS JR.

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + EST)
TEC	0.415	0.395
ACQUISITION	0.000	0.000
M	0.000	0.000
HR	0.164	0.179
ANAL. LAB	0.579	0.574
HOUSE	0.579	0.574
HOUSE RDT&E	0.415	0.395
OPERATING COST	0.000	0.000

PERSONNEL DATA (END OF FY 1973)

AUTHORIZED STRENGTH	TOTAL RHOS	TOTAL PROF	NON- PROF
16	1	7	9
7	0	2	5
23	1	9	14

SPACE AND PROPERTY
SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
2.260	0.140	2.037	4.437	0.177	0.528

CH
OTE AND TO PROVIDE TECHNICAL AND SPECIALIZED SERVICES IN THE
OPERATIONAL TOXICOLOGY AND HEALTH ENGINEERING AS RELATED TO
PROBLEMS ENCOUNTERED ABOARD SHIPS AND IN THE DESIGN AND USE OF
NS

1. IMPORTANT PROGRAMS
INGESTION TOXICOLOGY OF RDX

2. TOXICOLOGY
TOXICOLOGY OF RAMJET FUELS AND SMOKE ABATERS
TOXICITY OF BREATHING GAS MIXTURES
TOXICITY OF CARBON DIOXIDE SCRUBBERS

3. EQUIPMENT/CAPABILITIES
CAPABILITY AND EQUIPMENT CAPABILITY CONSISTS OF 6-2 CU METER EXPOSURE
150 & 1000 PSIG CHAMBERS WELL EQUIPPED CHEMISTRY BIOCHEMISTRY
PATHOLOGY PHARMACOLOGY & INSTRUMENTATION LABORATORIES.
CAPABILITY IN ENVIRONMENTAL TOXICOLOGY OF INHALED & INGESTED
SUBSTANCES OF NAVAL ORIGIN & DEVELOPMENT OF EXPOSURE CRITERIA.

ICN PACIFIC MISSILE RANGE

POINT MUGU, CA.

N61756

W. M. HARNISH TECH. DIR. MR. W.L. MILLER

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + EST)
GE	66.951	66.840
ICUREMENT	2.151	2.802
IER	7.024	6.930
NAL LAB	15.452	14.245
	91.578	90.817
HOUSE	58.061	57.317
HOUSE RENT	43.133	43.151
OPERATING COST	23.585	23.899

PERSONNEL DATA (END OF FY 1973)

AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
136	3	86	600
2883	5	448	2435
3569	8	534	3035

SPACE AND PROPERTY

SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)					
LAB	ADMIN	OTHER	TOTAL	REAL	PRCH	EQUIP
93.463	271.883	1397.228	1762.574	146.900	174.300	

IN SUPPORT FOR DOD AND OTHER DESIGNATED GOVT AGENCIES FOR LAUNCHING & COLLECTION DATA IN GUIDED MISSILE, SATELLITE & SPACE VEHICLE DEVELOPMENT, EVALUATION & FLEET TRAINING.
NATL RANGE FACILITIES AT PT MUGU CA/SAN NICOLAS IS/KAUAI, HAWAII

KEY IMPORTANT PROGRAMS
REPORT OF 293 NATL RNG PROGRAMS-F14, F15, AGILE, HARPCCN, INCIDENT, C4
UNDERWATER TEST & EVAL RANGE IN HAWAIIAN AREA FOR ASW WPS TESTS
EXTENDED AREA TRACKING SYS TO EXPAND FLY TRNG SUPPORT CAP CONUS
INTEGRATED TARGET CONTROL (ITCS) FOR CONUS SITES
IN COMBAT MANEUVERING TEST SYSTEMS (CMTS) FOR TACTICAL WPN EVAL

ITIONS/EQUIPMENT/CAPABILITIES
UMENTATION SHIP USNS WHEELING AGM-8 AND 4 INSTR AIRCRAFT-ECH21K
UNDERWATER RANGE AT KAUAI, HAWAII PROVIDE TRAJ DATA, TELEMETRY,
CONTROL/DESTRUCT, COMMUNICATIONS, DATA TRANSMISSION AND DISPLAY
(CALIB/REPAIR/INSTL/MAINT) METRO & OCEANO SVCS/FREQ COORD.
DS, LOGISTICS & BASE SUPPORT, MAJOR OF CONTROL SITES AT PT MUGU &
SANDS, DATA PROCESSING CENTER AT PT MUGU PHORE LAUNCH COMPLEX AT
AND SAN NICOLAS AND KAUAI UNDERWATER RANGE IS 5X10 NM WITH 37
MILES AT 400-1000 FEET/MS, INSTRUMENTED AREA(S)ONLS-100X200KM/HAW
100NM, WESTERN AREA FREQ COORDINATOR (JCS) AT CONUS AND HAW AREA,
USTIC IMPACT LOCATION ARRAY OAHU/MIDWAY/WAKE.

INSTALLATION AEROPROPULSION LABORATORY

SPAFB, CH.

0F0402

C.O. COL. W.S. MOE JR.

TECH. DIR. MR. M.P. DUNHAM

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973		1974 (ACTUAL) (ACT + EST)
	FACTUAL	EST	
TOTAL RDT&E	54.539	55.250	
TOTAL PROCUREMENT	0.00	0.000	
TOTAL COM	0.000	0.000	
TOTAL OTHER	0.929	7.709	
TOTAL ANNUAL LAB	55.468	62.959	
TOTAL INHOUSE	9.454	9.161	
TOTAL INHOUSE RDT&E	8.525	8.026	
ANNUAL O&M RATING COST	0.306	0.266	

PERSONNEL	PERSONNEL DATA (END OF FY 1973)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	49	10	42	7
CIVILIAN	355	14	190	175
TOTAL	404	24	222	182

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
40	219.863	39.010	353.747	655.620	12.261	16.189

MISSION PLAN: FORMULATE AND EXECUTE EXPLORATORY, ADVANCED AND PROTOTYPE DEVELOPMENT PROGRAMS IN AIR-BREATHING PROPULSION, AEROSPACE POWER GENERATION AND DISTRIBUTION, LASER AERODYNAMICS AND AIRCRAFT FUELS, LUBRICANTS AND FIRE PROTECTION.

CURRENT IMPORTANT PROGRAMS
YJ101 PROTOTYPE ENGINE FOR THE YF-17 PROTOTYPE FIGHTER
ADVANCED TURBOFAN ENGINE TECHNOLOGY DEMONSTRATION
HIGH ENERGY DENSITY FUELS FOR MISSILE PROPULSION
CASEN AERODYNAMICS AND AIR DRN HIGH POWER FOR LASER SYSTEMS
INTEGRAL ROCKET/RAMJET POLARIZED MULTI-PURPOSE MISSILE

FUNCTIONS/EQUIPMENT/CAPABILITIES
AERPLS MAJOR FACILITIES/EQUIPMENT CONSIST OF: TURBINE ENGINE CONTROL TEST FACILITY, BATTERY DEVELOPMENT & TEST FAC, MHD GENERATOR, LUBRICANTS GEAY RIGS, SEAL TEST RIGS, BEARING RIGS, FUEL HANDLING FAC, FIRE DETECTION LAB, FIRE RESEARCH LAB, CIRK LAB, FUEL ANALYSIS LAB, COMBUSTION LAB, SLASH AND VIBRATION TABLE, ROTOR TEST FAC, 6 SEA LEVEL TEST STANDS TO 10,000 LB THRUST, 2 TURBINE ENGINE ALTITUDE CELLS TO 3,000 LB THRUST, MACH 1.5, 50,000 FT, 4 PROPELLER WHIRL RIGS TO 30,000 HP, GYROSCOPIC TEST CHAMBER, RAMJET COMPONENT LAB, SHOCK TUBE, ELECTRO AERODYNAMIC LASER, HIGH TEMPERATURE TURBINE COMPONENT TEST FAC, AXIAL FLOW COMPRESSOR FAC, SAND EROSION RIG, CENTRAL DATA ACQUISITION SYS, AIRCRAFT SOLID STATE ELECTRICAL POWER FAC WITH THREE 350 HP DRIVE SOURCES AND THIS AT AIRCRAFT ELECTRICAL SIMULATIONS, VACUUM CHAMBERS, SOLAR SIMULATORS.

INSTALLATION AEROSPACE RESEARCH LABORATORIES

WPAFB, OH

UF 0121

C.D. COL. R.H. MILLING

CH. SCI. DR. HANS J.P. VAN ZELEN

PROGRAM	PROGRAM DATA BY FISCAL YEAR (MILLION \$)	
	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL R&D	11.370	10.487
TOTAL PROCUREMENT	0.000	0.000
TOTAL OEM	0.000	0.000
TOTAL OTHER	1.170	1.209
TOTAL ANNUAL LAB	12.540	11.696
TOTAL INHOUSE	7.475	7.471
TOTAL INHOUSE R&D	6.505	6.262
ANNUAL OPERATING COST	1.400	1.318

PERSONNEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END IX FY 1973)		
		TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	69	19	59	10
CIVILIAN	174	43	82	92
TOTAL	243	62	141	102

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
36	156.873	49.637	34.719	221.429	13.510	11.350

...MISSION
PLANS AND EXECUTES USAF RESEARCH PROGRAMS IN THE PHYSICAL AND ENGINEERING SCIENCES. PROVIDES TECHNICAL OR MANAGEMENT ASSISTANCE IN SUPPORT OF STUDIES, ANALYSES, RESEARCH, AND DEVELOPMENT PLANNING ACTIVITIES; ACQUISITION, TEST, EVALUATION AND OPERATION OF AEROSPACE SYS. AND EQUIPMENT.

...CURRENT IMPORTANT PROGRAMS
INVEST OF EXCIT, IONIZ, ENERGY TRANSF, PLAS, PLAS, ATOMS PHENOM
INTEG RSCI ON OPT, MAG-OPT, ELEC-OPT, ELECTRON PROP OF SELECT ELECT MATS
STUDIES OF GAS-SOLID INTERFACE REACTS AND INT PROCESS IN SOLID MATERIALS
STUD IN MAT SCIENCES AT RELATE TO RELIABLE, MAINTAINABLE, COST REDUCT
INVESTIGATION OF FLUID-DYNAMIC ENERGY AND MOMENTUM EXCHANGE PROCESSES.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ARL CONDUCTS AND SPONSORS RESEARCH IN: STRUCTURE AND PROPERTIES OF SOLIDS, CHEMICAL PROPERTIES AND PROCESSES, FLUID MECHANICS AND FLUID DYNAMIC FACILITIES, APPLIED MATH, PLASMA AND SOLID STATE PHYSICS, AND ENERGY CONVERSION. EXPERIMENTAL AND SUPPORT FACILIT/CAPABILITIES: GLASS SHOP, MACHINE SHOP AND 15,000 VHL. TECHNICAL LIBRARY, M3-6 HI-RE AND 4 HYPER-SUPERC COMPRESS, 1 MEV VAN DE GRAAFF AND ION-IMPLANTATION ACCELERATORS, EPR, NMR AND TANDEM ION-MOLECULE MASS SPECTROMETERS, FLOWING GAS LASER, TRANSMISSION AND SCANNING ELECTRON MICROSCOPE AND MICROPROBE, AND ULTRA-HI QUALITY CRYSTAL GROWTH CAPABILITY.

INSTALLATION: ARMAMENT DEVELOPMENT AND TEST CENTER EGLIN AFB, FL.

0F0916

C.O. MG H.B. KUCHEPAN JR.

CH. SCI. MR. T.H. DALEHITE

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 FACTUAL	1974 FACT
TOTAL RDT&E	114.832	122.762
TOTAL PROCUREMENT	258.179	229.400
TOTAL D&M	2.977	2.917
TOTAL OTHER	62.196	57.703
TOTAL ANNUAL LAB	418.146	422.282
TOTAL INHOUSE	109.924	113.576
TOTAL INHOUSE RDT&E	97.591	61.740
ANNUAL OPERATING CGST	22.000	23.000

PERSONNEL DATA END OF FY 1973

PERSONNEL	AUTHORIZED STRENGTH	TOTAL WHS	TOTAL PROF	NON- PROF
MILITARY	4367	121	1363	3004
CIVILIAN	2992	80	687	2305
TOTAL	7359	121	2050	5309

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER	TOTAL REAL PROP EQUIP
464740	384.766 890.032 929.036	1031.732 217.761 233.023

...MISSION

EXPL ADV ENGR DEV AND TEST EVAL INITIAL ACQUISITION OF NONNUCLEAR MUNIS CONDUCTS TESTS & EVALUATIONS IN FOLLOWING AREAS ENW AFNET COM/CONTROL INTRUSION/INTERDICTION, ELECTRO/OPTICAL, CLIMATIC SIMULATION, VERTICAL PROBES. PERFORMS COMBAT TECH APPL. SUPPORTS TESTS OF OTHER AGENCIES.

...CURRENT IMPORTANT PROGRAMS

MODULAR WEAPON SYSTEMS
GLIDE BOMB PROGRAM
AIRFIELD ATTACK MUNITION
AIR DELIVERED MINES
DEFENSE SUPPRESSION STAND-OFF MISSILE

...FUNCTIONS/EQUIPMENT/CAPABILITIES

A CAPABILITY OF SCIENTIFIC/ENGINEERING PERSONNEL AND LABORATORIES FOR EXPL-ADV & FMGR DEV IN THE AREA OF NONNUCLEAR MUNITIONS. ARMAMENT SYS TEST ENVIRONMENT COVERING 720 SQ MI WITH LARGE ADJACENT WATER AREA. HAS 28 TEST AREAS WITH INSTRUMENTED FACILITIES INCLUDING PRECISION TRACKING RADARS AND PHOT-OPTICS. IS USED FOR MUNITIONS TEST AND ELECTROMAGNETIC TEST ENVIRONMENT. IS AN INSTRUMENTED COMPLEX OF THREAT SYSTEMS FOR EVALUATION OF ENW DEVICES AND TECHNIQUES. WEAPONS EFFECTIVENESS AND SYS TEST ENVIRONMENT PROVIDES A REALISTIC ENVIRONMENT FOR TESTING W/ WPS SYS AGAINST AN ACTIVE DEFENSE SYSTEM. A CLIMATIC LAB CAPABLE OF TESTING COMPLETE WPS SYSTEMS. A PROBE LAUNCH FACILITY FOR LAUNCHING SCIENTIFIC PROBES. A COMPUTER SCIENCES LAB. A PHYSICAL SCIENCES LAB. A PHOT LAB. AN INSTRUMENTATION/DESIGN/FAB FACILITY.

INSTALLATION ARNOLD ENGINEERING DEVELOPMENT CENTER TULLAHOMA, TN.

DF0918

C.G.C. COL. W.E. PROTSMAN CH. SCI. MR. D.R. EASTMAN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	47.340	66.342
TOTAL PROCUREMENT	4.303	2.121
TOTAL OEM	1.260	0.087
TOTAL OTHER	4.231	8.461
TOTAL ANNUAL LAB	57.134	76.991
TOTAL INHIBUSE	14.126	60.774
TOTAL INHIBUSE RDT&E	12.617	59.148
ANNUAL OPERATING COST	0.000	0.000

PERSONNEL	PERSONNEL DATA (END OF FY 1973)		TOTAL PROF	NON- PROF
	AUTHORIZED STRENGTH	TOTAL PNS		
MILITARY	83	5	54	29
CIVILIAN	151	2	48	103
TOTAL	234	7	102	132

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL PROP
40110	1149.177	201.411	532.216	1082.804	363.675	60.175

...MISSION
PRIMARY MISSION IS TO SUPPORT THE TIMELY ACQUISITION OF SUPERIOR AEROSPACE SYSTEMS BY CONDUCTING RESEARCH AND DEVELOPMENT TESTS IN GROUND ENVIRONMENTAL TEST FACILITIES WHICH SIMULATE THE ACTUAL CONDITIONS THAT THE HARDWARE WILL EXPERIENCE IN PERFORMING ITS MISSION.

...CURRENT IMPORTANT PROGRAMS
CONTINUED F-15 ENG DEVELOPMENT TESTS AND BEGAN F-15 STORE COMPAT TESTS
CONTINUED R-1 ENGINE DEVELOPMENT AND AERODYNAMIC PERFORMANCE TESTING
BEGAN A-10 ENGINE DEVELOPMENT AND GUN DEVELOPMENT TESTING
CONTINUED EXTENSIVE MINUTEMAN PSRE, PQA AND AGING AND SURVEILLANCE TESTS
OTHER SIGNIF TESTS: TRIDENT, ABRS, SPACE SHUTTLE, BIRD IMPACT, SENSOR PERF.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
AEDL IS COMPRISED OF ABOUT 34 MAJOR TEST UNITS HAVING A CAPITAL VALUE OF OVER \$640 MILLION. INCLUDED ARE WIND TUNNELS WITH TEST SECTIONS TO 16 FT SQ AND SPEEDS FROM SUBSONIC TO MACH 22, TURBINE ENGINE TEST CELLS WHICH PROVIDE TRUE SIMULATION TO MACH 3, ROCKET TEST CELLS, THE LARGEST RATED AT .5 MILLION LBS THRUST AT ALTITUDE, SPACE SIMULATION CHAMBERS TO 42 FT DIA AND 82 FT HIGH, HYPERBALLISTIC RANGES, DUST AND SNOW EROSION FACILITY, BIRD IMPACT FACILITY, SEVERAL CAPTIVE TRAJECTORY SYSTEMS. THESE TEST FACILITIES HAVE SUPPORTED THE DEVELOPMENT AND QUALIFICATION OF EVERY MAJOR AERONAUTICAL, MISSILE AND SPACE SYSTEM DEVELOPED SINCE 1954. BY PLANNING FOR AN ADEQUATE GROUND ENVIRONMENTAL TEST PROGRAM IN THESE FACILITIES, DEVELOPMENT PROGRAM MANAGERS CAN ASSURE THAT SYSTEM DESIGN DEFICIENCIES ARE FOUND EARLY, PREVENTING COST AND SCHEDULE OVERBURNS.

INSTALLATION AVIONICS LABORATORY

AFPAFB, OH.

DF0303

C.O. COL. M.M. BONNER

CH. SCI. MR. R.J. DORAN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973	1974
	(FACTUAL)	(ACT + EST)
TOTAL ROTC	103.636	98.792
TOTAL PROCUREMENT	0.000	0.000
TOTAL CCM	0.000	0.000
TOTAL OTHER	2.300	2.926
TOTAL ANNUAL LAB	105.936	101.718
TOTAL INHOUSE	14.174	15.999
TOTAL INHOUSE ROTC	11.874	13.073
ANNUAL OPERATING COST	3.607	4.610

PERSONNEL	PERSONNEL DATA (END OF FY 1973)			
	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	195	18	133	62
CIVILIAN	903	32	339	566
TOTAL	1100	50	472	628

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PREP
264	214.448	12.152	406.699	633.299	21.451	39.269

MISSION
MAINTAINS A BASE OF AVIONICS TECH DEVELOPED DEMONSTRATES COST-EFFECTIVE
AVIONIC SYSTEMS TO IMPROVE OPERATIONAL CAPABILITIES IN NAVICOMP, EW, RECON
, SURVEILLANCE, PNP, DEL, & PROVIDE SYS SUPPORT TO AFSC/ALL USAF OPERATIONAL
UNITS/Modification of avionics in the inventory.

...CURRENT IMPORTANT PROGRAMS
DIGITAL AVIONICS INTEGRATED SYSTEMS FOR AEROSPACE APPLICATIONS
GIMBAL ELECTROSTATIC GYRO FOR AIRCRAFT NAVIGATION (GEANS)
ELECTRONICALLY AGILE RADAR
LASER COMMUNICATIONS FOR SPACE APPLICATIONS
TECHNIQUES FOR TGT DETECTION, TRACKING, AND WEAPON DELIVERY

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCTS IN-HSE R&D TO MAINTAIN A HIGH DEGREE OF TECHNICAL COMPETENCE.
ACTS AS AFSC FOCAL POINT FOR INFO IN ASSIGNED TECHNICAL AREAS. EXECUTES
ASSIGNED PROJECTS FOR AND WORKS CLOSELY WITH ARMY, NAVY, NASA, AFPA, OTHER
GOVT AGENCIES. SUPPORTS AFSC PROGRAMS AND INSURES THE RAPID APPLICATION
OF RESEARCH TECHNOLOGY TO ADVANCED SYSTEMS. PROVIDES TECHNICAL SUPPORT TO
CURRENT/FUTURE SYSTEMS PROGRAMS/OPERATIONAL PROJECTS IN AREAS OF
ASSIGNED MISSION. PERFORM CONCEPTUAL PLANNING, ANALYSIS/STUDIES MAJOR FAC/
EQUIP ARE-ELECTRO OPTICAL SURVEILLANCE FAC WITH 48 IN APERATURE-DYNAMIC
ANALYZER FOR ADVANCED RECON SYSTEMS-LASER RESEARCH FAC-SOLID STATE
INTEGRATED CIRCUITS LAB ELECTROMAGNETIC TECHS COUNTERMEASURES LAB INCL
ECP UCM SIMULATION FAC, COMMUNICATIONS SYSTEMS EVALUATION LAB.

INSTALLATION CAMBRIDGE RESEARCH LABORATORY

L.G. FANSOM FLD, MS.

0FC124

C.O. COL. W.K. MORAN JR. CH. SCI. DR. J.N. HOWARD

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	54.350	49.987
TOTAL PROCUREMENT	0.566	0.685
TOTAL CCM	0.001	0.001
TOTAL OTHER	2.050	2.050
TOTAL ANNUAL LAB	56.975	52.323
TOTAL INHOUSE	35.563	34.018
TOTAL INHOUSE RDT&E	33.504	31.967
ANNUAL OPERATING COST	7.454	7.454

PERSONNEL	PERSONNEL DATA (END OF FY 1973)	TOTAL	TOTAL	NON-
	AUTHORIZED STRENGTH	PHDS	PROF	PRIF
MILITARY	155	11	60	95
CIVILIAN	978	166	588	390
TOTAL	1133	177	648	485

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	SPACE (THOUSANDS OF SQUARE FEET)	LAB	ADMIN	OTHER	TOTAL	REAL FRCP EQUIP
861	609,438	19,708	125,916	755,062	20,613	68,104

...MISSION
CONDUCTS AND SUPPORTS AF RELEVANT RESEARCH AND EXPLORATORY DEVELOPMENT IN ENVIRONMENTAL, ENGINEERING, AND PHYSICAL SCIENCES WITH MAJOR EMPHASIS ON GEOPHYSICS AND ELECTRONICS. ALSO CONDUCTS AND SUPPORTS SPECIFICALLY ASSIGNED ADVANCED DEVELOPMENT EFFORTS.

...CURRENT IMPORTANT PROGRAMS
IONOSPHERIC MAPPING AND FORECASTING FOR COMMUNICATIONS
SHORT RANGE TERMINAL FORECASTING
RADIATION HARDENING OF DEVICES AND INTEGRATED CIRCUITS
OPTICAL INFRARED AND UV BACKGROUND MEASUREMENTS
ENVIRONMENTAL DEFINITION FOR REENTRY PROGRAMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCTS RESEARCH AND TECHNICAL DEVELOPMENT IN TERRESTRIAL, AEROSPACE, OPTICAL AND SOLAR PHYSICS, IN EM PROPAGATION, AND IN ELECTRONICS, ENERGY CONVERSION, SOLID STATE AND INFORMATION SCIENCES RELATING TO AIR FORCE NEEDS. EQUIPMENT AND FACILITIES INCLUDE RADIO AND OPTICAL TELESCOPES FOR SOLAR RESEARCH; S, X, AND L BAND RADARS AND A C-130 AIRCRAFT FOR METEOROLOGICAL RESEARCH; ROCKET AND BALLOON LAUNCH FACILITIES, TWO KC-135 AND ONE C-130 AIRCRAFT FOR OPTICAL, UPPER ATMOSPHERIC AND NEAR SPACE STUDIES; FACILITIES FOR GROWTH OF ELECTRONIC MATERIALS, A VAN DE GRAAFF ACCELERATOR, COBALT 60 SOURCE, 12 MEV LINAC, 29 FOOT MILLIMETER WAVE ANTENNA ALL FOR ELECTRONICS RELATED PROGRAMS, AND A CDC 6600 COMPUTATIONAL NETWORK.

INSTALLATION FLIGHT DYNAMICS LABORATORY

BPAFB, OH.

DF0604

C.O. CIN. C.A. SCOLATI

CH. SCI. DR. D. ZUNARS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973	1974
(ACTUAL)	(ACT + EST)	
TOTAL RDT&E	51.474	46.467
TOTAL PROCUREMENT	0.000	0.000
TOTAL O&M	0.786	0.000
TOTAL OTHER	6.140	2.661
TOTAL ANNUAL LAB	58.400	49.128
TOTAL INHOUSE	26.508	27.498
TOTAL INHOUSE RDT&E	24.117	24.837
ANNUAL OPERATING COST	4.520	4.746

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL		NON- PROF
		FNDS	PROF	
MILITARY	210	21	126	84
CIVILIAN	967	39	587	450
TOTAL	1177	50	563	534

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PRCP	EQUIP
90	541.130	60.600	26.000	627.730	22.705	59.696

...MISSION
PLAN AND EXECUTE USAF RESEARCH, EXPLORATORY, AND ADVANCED DEV PROGRAMS FOR AF/HYPERSPACE, HTV VEHICLE STRUCTURES, FLY MECHANICS, FLY CONTROL, VEHICLE DYN AND VEHICLE EQUIP. LEAD AFSC LAB FOR VSTOL AND RPV TECH. AFSC FOCAL PT FOR NONNUCLEAR SURVIVABILITY PROG. EVALUATE CONTRACTOR I R AND C PROG.

...CURRENT IMPORTANT PROGRAMS
TRANSonic AIRCRAFT TECHNOLOGY
CONTROL CONFIGURED VEHICLE
AIR CUSHION LANDING SYSTEM
ADVANCED FIGHTER TECHNOLOGY INTEGRATION
ADVANCED METALLIC STRUCTURES

...FUNCTIONS/EQUIPMENT/CAPABILITIES
SOMM TEST FACILITY IS A 30 MIN CONTINUOUS FLOW ARC HEATED HYPERSONIC W/T HAVING A RE-ENTRY NOSE TIP (RENT) TEST LEG AND HYPERSONIC TEST LEG (HTL) STRUCTURES TEST FACILITY PERMITS STRUCTURAL TESTING OF FULL SCALE VEHICLES AND COMPONENTS WITH PROGRAM CONTROLLED SIMULATION OF FORCE AND THERMAL FLY ENVIRONMENTS. LANDING GEAR TEST FACILITY DYNAMICALLY SIMULATES LANDING GEAR COMPONENT PERFORMANCE CHARACTERISTICS THRU PREGRANDED PARAMETERS OF LOADS, VELOCITIES, TEMP, ETC. ENGINEERING FLY SIMULATION FAC CONTAINS FLY SIMULATORS AND COMPUTING EQUIP TO DEVELOP CONTROL DISPLAY CONCEPTS AND EVALUATE MAN'S PERFORMANCE ON SPECIFIC DISPLAY AND CONTROL SYSTEMS. SOMIC FATIGUE FACILITY PROVIDES HIGH INTENSITY SOUND ENVIRONMENTS TO INVESTIGATE ACOUSTIC FATIGUE STRENGTHS OF FULL SIZE FLY VEHICLE SUBASSEMBLIES, COMPONENTS, ELECTRONIC EQUIPMENT AND TRANSDUCERS.

ILLATION FLIGHT TEST CENTER

EDWARDS AFB, CA.

0F0914

CH. M.L. LANE CH. SCI. COL. R.C. LATHROP

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973	1974
	(ACTUAL)	(ACT + EST)
1. DTGEC	48.091	48.477
2. PROCUREMENT	0.000	0.000
3. OEM	1.010	1.143
4. OTHER	29.700	31.880
5. ANALYST LAB	78.801	81.900
6. INHOUSE	66.777	71.693
7. INHOUSE DTGEC	36.291	38.977
8. OPERATING COST	81.223	80.013

PERSONNEL DATA (END OF FY 1973)

UNNEL	AUTHORIZED	TOTAL	TOTAL	NON-
	STRENGTH	PNOS	PROF	PROF
1. DARY	3256	45	410	2830
2. LITAN	1751	6	360	1403
3. A.	2007	51	760	4261

SPACE AND PROPERTY

ARES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAR	ADMIN	OTHER	TOTAL	REAL PRCP	EQUIP
1923	551.092	313.342	6439.861	7385.895	180.672	109.881

MISSIONS/SUPPORTS TESTS OF MANNEED/UNMANNED AEROSPACE VEH. CONDUCTS DTGEC EVAL/RECOV OF AEROSPACE R&D VEH AND DEVEL TESTING OF AEROCYANIC ELEVATORS. DPA USAF TEST PILOT SCH. SUPPORTS USAF, DOD, CIA, FOREIGN, CONTRACTOR TEST AND EVALUATION PROGRAMS.

CURRENT IMPORTANT PROGRAMS
D-111 (SYS/PRUG A/D/E/F-3244 A-1296) DTGEC

A. FOLLOW-ON DTGEC

5 DTGEC/10TGE

FLY-OFF EVALUATION

NE/REMOTELY PILOTED VEH AQM-34M/UM SYSTEMS DEVELOPMENT

FUNCTIONS/EQUIPMENT/CAPABILITIES

MINICAL FACILITIES AND EQUIPMENT ARE AVAILABLE TO PROVIDE A COMPLETE SET OF SERVICES FOR CONDUCTING DTGEC FLT TESTS OF AERONAUTICAL SYS, TURBINE FLIGHT EVALUATION AND RECOVERY/RETRIEVAL OF RESEARCH VEHICLES, & DRAIN TEST PILOTS. ENGINEERING LABS, REALTIME INSTRUMENTED RANGES, A COLLECT, REDUCTION AND ANALYSIS LABS, PHOT/TV, ACFI/ENG/E MAINT TEST EQUIP, ELECTRONICS SHOPS, AND A COMPLEX OF DRY LAKES FOR RECOVERY & EMERGENCY LANDINGS PROVIDES VARIOUS SUPPORT FOR ALL TEST PROGRAMS. OTHER MAIN FACILITIES ARE: PRECISION IMPACT, GUNNERY/BOMBING, INFRA RED AT/RESOLUTION, RADAR FIDELITY, TACTICAL & OPTICAL RANGES, CONTRACTOR SIGNED HANGARS, SHOPS, LABS, OFFICE SPACE, ENGINEERING SIMULATION LAB, & MUNITIONS STORAGE AND CHECKOUT.

INSTALLATION FRANK J. SEILER RESEARCH LABORATORY

USAF ACADEMY, CO.

DF 9998

C.O. COL. G.W. BROCK

CH. SCE. LT.COL T.M. TOMASKOVIC

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL RDT&E	0.525	0.520
TOTAL PROCUREMENT	0.525	0.520
TOTAL TCM	0.000	0.000
TOTAL OTHER	0.407	0.470
TOTAL ANNUAL LAB	1.457	1.510
TOTAL INHOUSE	1.457	1.510
TOTAL INHOUSE RDT&E	0.525	0.520
ANNUAL OPERATING COST	0.030	0.035

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PNS	TOTAL PROF	NON- PROF
MILITARY	22	12	24	2
CIVILIAN	9	1	3	6
TOTAL	31	13	27	8

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROP
0	9.400	2.800	0.240	12.440	1.100	1.500

MISSION
CONDUCT RESEARCH IN AEROSPACE MECHANICS, APPLIED MATHEMATICS & CHEMISTRY,
ENGINEERING & SUPPORT ACADEMY FACULTY & CADET RESEARCH BY DIRECT PARTICI-
PATION, MONITOR FACULTY CONSULTANT PROG, SUMMER LAB PROG, FOCAL POINT FOR
USAF ACADEMY RESEARCH PROPOSED TO THE DOD RESETECH LABORATORIES (AFSC)

ACQUISITION IMPORTANT PROGRAMS
FUEL CELL AND BATTERY STUDIES-ALUMINUM ANODES IN MOLTEN SALT ELECTROLYTE
SYNTHESIS AND CHARACTERIZATION OF ORGANOMETALLIC HOMOPOLYMERS & POLYMERS --
MODELING OPTIMIZATION PROGRAMMING & CONTROL (MATH MODELS QUICK & EASY)
DIFFERENTIAL GAMES (IMPERFECT INFO), NONLINEAR CONTROL THEORY & ESTIMATES
MECH OF FLUIDS (LOW DENSITY SHOCK WAVES, RAN-WING THEORY, AERODYNAMIC SHAPES)

FUNCTIONS/EQUIPMENT/CAPABILITIES
MATL MODELING OPTIMIZATION CONTROL AND GUIDANCE SYSTEMS USING BURR R6700
COMPUTER, ORGANOMETALLIC & ELECTROCHEN & NITROALIPHATIC AND FLUORONITRO-
ALIPHATIC CHEMISTRY USING 6 POSITION LAB & INSTRUMENT ROOM CONTAINING
ANAL HIC MAG RESONATOR SPECTROMETER, X-RAY EQUIPMENT, INFRARED SPECTRO-
PHOTOMETER, MASS SPECTROMETER, AUTOMATIC GAS CHROMATOGRAPH & OTHER EQUIP.
FLUID DYNAMICS RESEARCH USING 17 INCH LOW DENSITY SHOCK TUBE AND ASSOCI-
ATED INSTRUMENTATION, 2 INCH HIGH DENSITY SHOCK TUBE & WIND TUNNELS.
ADVANCED ANALYSIS AND EVALUATION TECHNIQUES FOR INERTIAL GUIDANCE SENSOR
S USING TWO-AXIS TEST TABLE (GYRO), AUTOMATIC AZIMUTH ALIGNMENT EQUIP AND
ELECTRONIC CONTROL EQUIPMENT FOR 50 SERIES INERTIAL DEVICES LOCATED IN A
CLASS 1000 CLEAN LAB OR 80 TUM AIR SUPPORTED STABLE PLATFORMS.

INSTALLATION HUMAN RESOURCES LABORATORY

BROOKS AFB, TX.

DF0427

CH. COL. H.E. FISCHER

CH. SCI. DR. H.L. PARRIS

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
DTAL RDT&E	13.824	15.132
DTAL PROCUREMENT	0.000	0.000
DTAL O&M	0.000	0.000
DTAL OTHER	2.249	2.210
DTAL ANNUAL LAB	16.073	17.342
DTAL INHABIT	6.139	6.310
DTAL INHABIT RDT&E	4.450	6.600
ANNUAL OPERATING COST	1.110	2.360

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	127	8	94	33
CIVILIAN	254	34	122	132
DTAL	381	42	216	165

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROP
13	70.464	31.835	47.543	149.842	3.224	4.262

MISSION
PRINCIPAL AFSC UNIT CHARGED WITH PLANNING AND EXECUTING USAF EXPLORATORY AND ADVANCED DEVELOPMENT PROGRAMS FOR SELECTION, MOTIVATION, TRAINING, RETENTION, EDUCATION, UTILIZATION AND CAREER DEVELOPMENT OF USAF MILITARY PERSONNEL, COMPOSITION OF PERSONNEL FORCE, AND TRAINING EQUIPMENT.

CURRENT IMPORTANT PROGRAMS
ADVANCED INSTRUCTIONAL SYSTEMS AND ADVANCED SIMULATION FOR UNDERGRADUATE PILOT AND AEROSPACE CREW TRAINING. IMPROVED PERSONNEL SELECTION, CLASSIFICATION, EVALUATION, AND UTILIZATION TECHNIQUES. HUMAN FACTORS IN DESIGN & TRAINING SYSTEMS. DESCRIBING, EVALUATING AND STRUCTURING AIR FORCE OCCUPATIONS. DOD HANPUMER DEVELOPMENT PROGRAM EVALUATION AND IMPROVEMENT.

FUNCTIONS/EQUIPMENT/CAPABILITIES
FUNCTIONAL AREAS OF OCCUPATIONAL ANALYSIS, PERSONNEL PROCUREMENT, PERSONNEL CLASSIFICATION, RETENTION AND SEPARATION, PERSONNEL SYSTEM COMPUTER SIMULATION MODELS, HANPUMER RENTS OF AF WEAPON SYS TRAINING TECHNIQUES, DESIGN OF SIMULATORS AND OTHER TRAINING DEVICES CAPABILITIES (CONTACT TRAINING RESEARCH ASSOC WITH PILOT TRAINING USING SOPHISTICATED HIGH-FIDELITY A/C SIMULATOR, ADVANCED INSTRUCTIONAL SYS FOR INDIVIDUALLY FACED COMPUTER AIDED TECH INSTRUCTION, CHECKOUT AND MAINT OF ELECTRONIC EQUIP, TECH AND PROF LIBRARY, PERSONNEL TESTING ROOMS, AUDIO VISUAL EQUIP, RESEARCH SIMULATOR CCKPIT, INFINITY OPTICS DISPLAY, RAYTHEON PB440 DIGITAL COMPUTER, IBM 7040 ELECTRONIC DATA PROCESSING SYSTEM WITH 6 TAPES DISC FILE, CARD READ/PUNCH PRINTER AND INQUIRY STATION, VISUAL DISPLAY DEVICE (ELECTRONIC ASSOCIATES TR40 ANALOG COMPUTER).

STILLATION MATERIALS LABORATORY

SPAFF, CH.

DF0105

COL. R.K. SAXER

ACTG. DEP. DIR. MR. R.T. SCHNARTZ

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + FSY)
TAI RDT&E	35.397	34.730
TAI PURCHASE	11.603	14.000
TAI O&M	0.000	0.000
TAI OTHER	1.095	1.200
TAI ANNUAL LAB	48.095	49.930
TAI INHOUSE	11.305	12.071
TAI INHOUSE RDT&E	10.210	10.871
TAI OPERATING COST	2.899	2.908

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
ARMED FORCES	56	22	60	4
WOMEN	341	45	234	107
TAI	397	67	294	111

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
9	LAB 0.116 ADMIN 0.062 OTHER 0.041	TOTAL 0.217 REAL PROP 6.949 EQUIP 11.847

MISSION
AN/EXECUTE EXPLORATORY AND ADVANCED DEVELOPMENT, AND ASSIGNED BASIC
CIV. PROGS. FOR MATERIALS. PROVIDE TECH./MANAGEMENT ASSISTANCE FOR
UNITS, ANALYSES, DEVELOPMENT PLANNING, ACQUISITION, TEST, EVALUATION
D. AND IPRN. OF AEROSPACE SYSTEMS. MANAGE/DIRECT A.F. DIRECT MFG. PROG.

CURRENT IMPORTANT PROGRAMS
COMPOSITES ADVANCED DEVELOPMENT PROGRAM
MANUFACTURING TECHNOLOGY COST REDUCTION PROGRAM
SYSTEMS SUPPORT
STRUCTURAL METALS AND NONMETALS EXPLORATORY DEVELOPMENT PROGRAM
SUPER WINDOM PROGRAM

FUNCTIONS/EQUIPMENT/CAPABILITIES
EXPLORATORY AND DEVELOPMENT FACILITIES AND CAPABILITIES FOR:
ROBOTS, ROBOTS FOR BALLISTIC RV, AND ENGINES, FLUIDS, LUBRICANTS,
LIQUID CONTAINMENT, PROPULSION, COATINGS, FIBERS, ARMOR, ENGINES, SEALS, SCAFFS,
SPRAYS, LASERS AND OPTICAL DEVICES, ELECTRONIC COMPONENTS, NON-DESTRUCT
TESTING, POLYMERS, ADHESIVES, NONMETALLIC MATRIX COMPOSITES, ELASTICERS,
TAIS, ALLOYS, METAL AND CERAMIC COMPOSITES, METAL PROCESSING,
INTERMETALLICS, CERAMICS, STATIC AND DYNAMIC BEHAVIOR, JOINING, GRAPHITE,
ELECTRONIC AND MAGNETIC MATERIALS, PHYSICAL CHEMICAL ANALYSIS, OTHER
AEROSPACE MATERIALS FUNCTIONS/MANUFACTURING TECHNOLOGY, SYSTEMS APPLICATION
SYSTEMS SUPPORT.

YALLATION ROCKET PROPULSION LABORATORY

EDWARDS AFB, CA.

DF0608

1. COL. J.C. HUNT

CH. SCI. DR. F. KELLEY

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

GRAN	1973 (ACTUAL)	1974 (ACT + EST)
AL RDT&E	24.317	23.764
AL PROCUREMENT	0.000	0.000
AL OEM	0.000	0.000
AL OTHER	2.949	2.701
AL ANNUAL LAB	27.266	26.465
AL INHOUSE	12.642	11.987
AL INHOUSE RDT&E	9.980	9.446
AL OPERATING COST	0.270	0.270

PERSONNEL DATA (END OF FY 1973)

SONNEL	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PRUF	NON- PROF
STAFF	178	10	64	114
ELIAN	299	7	106	193
AL	477	17	170	307

GRES SPACE (THOUSANDS OF SQUARE FEET)

	LAB	ADMN	OTHER	TOTAL	REAL PROP	EQUIP
6400	419.046	99.268	4.780	523.074	29.869	23.774

MISSION

4. FORMULATE, PRESENT, AND EXECUTE THE AFSC EXPLOR AND ACV DEVELOP-
I PROGRAMS IN ROCKET PROPULSION SYS, COMPONENTS, PROPELLANTS AND
JCD EQUIP. CONDUCT IN-HOUSE R&D. SUPPORT DEPLOYED AND DEVELOPMENTAL
ITEMS. ACT AS AFSC FOCAL POINT FOR INFO IN THE ASSIGNED TECH AREAS.

CURRENT IMPORTANT PROGRAMS
IMPROVE ICBM RANGE/PAYOUT/PENETRATION CAPABILITIES AND IMPROVE SERVICE
E PREDICTION. INCREASE LIFE OF SATELLITE SYS. INCREASE ABILITY OF
ATEGIC ACFT TO PENETRATE TO THE TARGET. PROVIDE MAX PROPULSIVE
COVERING FOR SPACECRAFT. IMPROVE ACCURACY AND REDUCE COSTS OF
TECHICAL ARMAMENT.

FUNCTIONS/EQUIPMENT/CAPABILITIES
IMPONENT TEST LAB AND CENTRIFUGE FOR TESTING SMALL PROPULSION SYS AND
COMPONENTS UNDER SIMULATED SPACE ENVIRONMENTS. FACILITIES FOR FCPULATING
TESTING NEW SOLID AND LIQUID PROPELLANT RKT MOTORS. A CHEM LAB FOR
ITHESIS, ANALYSIS, AND FORMULATION OF NEW PROPELLANTS. A SOLID MOTOR
TEST AND EVAL COMPLEX FOR INVESTIGATION OF COMBUSTION, AGING, STRUCTURAL
TEGRITY AND HOT COMPLIMENTS. AMBIENT AND ALTITUDE TESTING OF TECIC RKT'S
TO 50,000 LB THRUST. IOT AIR CAPABILITY TO TEST AIR BREATHING PROPUL-
I. A FACILITY FOR TESTING REENTRY NOSE CONES. A FACILITY FOR TESTING
ENGINES UP TO 10,000,000 LB THRUST. IN-HOUSE ANALYTICAL CAPABILITY
W/S PROPULSION SYS OPTIMIZATION, TRADE-OFF AND MISSION STUDIES. A
WATER FACILITY FOR DESIGN, ANALYSIS, AND TEST DATA REDUCTION. SHOPS
FABRICATING TEST HARDWARE AND TEST SYSTEMS.

ITION ROME AIR DEVELOPMENT CENTER

GRIFFISS AFB, N.Y.

0F0501

J.W. HEPEER

CH. SCI. DR. I.J. GABELMAN

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + EST)
ITGE	95.505	89.943
INCUREMENT	21.004	19.778
IN	7.545	7.103
HER	16.586	17.862
INHAL LAB	142.640	134.686
INHOUSE	27.644	26.397
INHOUSE RDT&E	22.196	20.903
OPERATING COST	12.163	12.596

PERSONNEL DATA (END OF FY 1973)

EL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
1	299	5	85	214
4	1133	11	513	620
	1432	16	598	834

SPACE AND PROPERTY

SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)		
LAB	ADMIN	OTHER	TOTAL
648.337	105.414	200.690	954.441
			29.346
			70.172

UN
ND EXECUTES EXPLORATORY AND ADVANCED DEVELOPMENT PROGRAMS FOR
MAG INTELLIGENCE AND RECON PROCESSING, DISPLAYS, SURVEILLANCE,
LITY AND COMPATIBILITY, COMMUNICATIONS FOR AF, DOD AND OTHER
ATIONS, PROVIDES TECHNICAL CONSULTATION TO MAJOR AIR COMMANDS.

ENT IMPORTANT PROGRAMS
JECT SURVEILLANCE AND IDENTIFICATION TECHNOLOGY
NETIC RELIABILITY AND MAINTAINABILITY TECH AND FIELD SUPPORT
LOCATION AND STRIKE TECHNIQUES
E HORIZON DETECTION EXPERIMENTS AND DEVELOPMENTS
FENCE AND RECON EXPLORATORY DEVELOPMENTS AND FIELD SUPPORT

TIONS/EQUIPMENT/CAPABILITIES
S A WELL BALANCED COMBINATION OF PROFESSIONAL SKILLS AND
ENT FACILITIES TO MARRY THEORETICAL STUDIES TO POTENTIAL
TION, BY COMBINATION OF AIRBORNE LABORATORY MEASUREMENT IN
ENT FLIGHT TEST AIRCRAFT AND FLEXIBLE ON-BASE AND OFF-BASE
ENT SITES, A HIGH DEGREE OF SOPHISTICATION IS ACHIEVED FOR
ING GROUND ELECTROMAGNETIC STUDIES AND EXPERIMENTS. CAPABILITIES
LABLE FOR CONDUCTING HIGH AND LOW POWER EXPERIMENTS OVER
NETIC SPECTRUM FROM EXTREMELY LOW FREQUENCIES TO LIGHT.
IC STUDIES ARE PERFORMED USING ONE OF THE NATION'S LARGEST ON-LINE
ARING COMPUTERS. RESOURCES ARE PRIMARILY USED IN EXPLORATORY AND
D DEVELOPMENTS AND EXTENDING TO TECHNICAL SUPPORT OF THIRTY-SIX
ER FORCE AND DOD ORGANIZATIONS.

ELATION SPACE AND MISSLE TEST CENTER

VANDENBURG AFB, CA.

DF0920

MG J.D. LOWE

TECH. DIR. MR. S.R. RADCH

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

	1973 (ACTUAL)	1974 (ACT + EST)
RUTGE	57.460	56.191
PROCUREMENT	0.000	0.000
OGM	0.000	0.000
OTHER	7.707	7.780
ANNUAL LAB	65.167	63.971
INHOUSE	14.782	14.753
INHOUSE RUTGE	7.855	7.453
OPERATING COST	13.291	13.036

INTEL	AUTHORIZED STRENGTH	PERSONNEL DATA (END OF FY 1973)		NON- PROF
		TOTAL PHDS	TOTAL PROF	
ARY	446	8	218	228
TEAN	375	2	160	215
	821	10	370	443

IES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL	PROP
146	91.407	354.386	431.954	877.745	56.600	495.861

MISSION
DE SPACE AND MISSLE FIELD TEST OPERATIONS. INSURE TIMELY DEVELOP-
MENT OF TEST CAPABILITY INCLUDING PERSONNEL, FACILITIES, INSTRUMENTATION
DOCUMENTATION.

URRENT IMPORTANT PROGRAMS

TEMAN II & III OPERATIONAL TRAINING

GUARD SYSTEM TEST TARGET PROGRAM - MINUTEMAN & TITAN BOOSTERS

G PROGRAMS

S & UNCLAS SPACE LAUNCHES USING ATLAS, THOR, TITAN & SCOUT BOOSTERS

TEMAN III R&D

FUNCTIONS/EQUIPMENT/CAPABILITIES

EC CAPABILITIES INCLUDE TEST LAUNCH AND RANGE SUPPORT; TEST LAUNCH
RS ASSEMBLY & PRELAUNCH TESTING OF LAUNCH VEHICLE SYSTEMS USING THOR
S, SCOUT, M/M & TITAN BOOSTERS, AND AGENA, BURNER & TITAN III UPPER
-MOTORSE PAYLOAD & VEHICLE INTERGRATION & CHECKOUTS AND LAUNCH COM-
-RANGE SUPPORT INCLUDES SHORT & LONG RANGE INSTRUMENTATION PLANNING
DATA GATHERING ON BALLISTIC/ORBITAL/PROBE LAUNCHES, AIRCRAFT FLYBY,
OTHER TESTS. VARIOUS FIXED & MOBILE ELECTRONIC & OPTICAL INSTRUMENTATION
IS AVAILABLE ON THE WEST COAST, PACIFIC ISLANDS, AND SHIPS & AIR-
-CRAFT TO GATHER RANGE SAFETY & PROGRAM TEST DATA. LAUNCH AZIMUTHS VARY
4.165 TO 310 DEGREES. LAUNCH FACILITIES & RANGE INSTRUMENTATION CAN
RECONFIGURED TO MEET PROGRAM REQUIREMENTS. IMPACT SCORING OF BALLIS-
-PAYLOADS IS AVAILABLE AT TWO ISLAND SITES AND IN THE BROAD OCEAN AREA

INSTALLATION USAF SCHOOL OF AEROSPACE MEDICINE

BRECKS AFB, TX.

C.O. COL. E.R. GOLTRA

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 ACTUAL	1974 (ACT + EST)
TOTAL RD&DE	10.338	9.819
TOTAL PROCUREMENT	0.203	0.013
TOTAL O&M	1.192	1.042
TOTAL OTHER	7.565	7.799
TOTAL ANNUAL LAB	19.258	18.673
TOTAL INKHOUSE	17.320	16.915
TOTAL INKHOUSE R&D	8.533	8.100
ANNUAL OPERATING COST	3.015	2.989

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHS	TOTAL PROF	NON- PROF
MILITARY	663	92	237	428
CIVILIAN	367	36	151	216
TOTAL	1032	128	388	644

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
43	473.078	90.154	73.084	645.316	18.129	23.587

...MISSION

RESEARCH IN LIFE SUPPORT AEROSPACE MEDICINE
BIOLOGICAL SCIENCES
CLINICAL EVALUATION AND CONSULTATION
EDUCATION AND TRAINING

...CURRENT IMPORTANT PROGRAMS

CONCEPTS AND CRITERIA FOR CREW MAINTENANCE AND PROTECTION
ELECTROMAGNETIC AND PARTICULATE RADIATION HAZARD IN AEROSPACE OPERATIONS
ACCELERATION CAPABILITY ENHANCEMENT
CREW CAPABILITY INTEGRATION FOR SYSTEM EFFECTIVENESS
SELECTION AND CARE OF FLYERS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

USAF SCHOOL OF AEROSPACE MEDICINE, RESEARCH IN AEROSPACE MED PROBLEMS,
ENVIRONMENTAL STRESS, DEVELOPMENTAL ENGINEERING, RADIobiology, LASER
HAZARDS, BIOMETRICS, BIOSCIENCE, BIOMED ENGINEERING AND CYTOBIOLOGY
FACILITIES, WHOLE BODY CHAMBER, HUMAN CENTRIFUGE, VARIOUS TEST CELLS AND
CHAMBERS, CECROFET + WALTON ACCELERATOR, NEUTRON GENERATOR, PHILCO 2000
DIGITAL COMPUTER, ROTATIONAL FLIGHT SIMULATOR, KILO-CURIE CG 60
RADIATION SOURCE, AEROSPACE MEDICAL SCIENCE LAB, AEROSPACE MEDICAL
CONSULTATION SERVICES, AEROMEDICAL EVALUATION, CLINICAL SCIENCE, OCULO
THERMAL, OPTICAL RESEARCH, AUDIOLOGY, VESTIBULAR, PSYCHOSIMULATORS, RADIO
ISOTOPE, AEROSPACE MEDICAL STANDARDS, AND LASER HAZARDS FACILITIES.
ZEISS PHOTOCOAGULATOR, VECTORCARDIOGRAPH MACHINE, BALLISTOCARDIOGRAPH
MACHINE, PHONOCARDIOGRAPH MACHINE, AND MASS SPECTROMETERS.

INSTALLATION WEAPONS LABORATORY

KIRTLAND AFB, N.M.

DF0506

C.O. COL. G.R. CUNNINGHAM

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 ACTUAL	1974 ACT + ESTI
TOTAL R&D	79.347	83.530
TOTAL PROCUREMENT	0.655	0.600
TOTAL O&M	0.000	0.000
TOTAL OTHER	10.755	11.067
TOTAL ANNUAL LAB	90.951	95.197
TOTAL INHOUSE	40.132	40.387
TOTAL INHOUSE R&D	29.267	29.220
ANNUAL OPERATING COST	7.800	8.000

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PROF	NON- PROF
MILITARY	790	93	404	396
CIVILIAN	394	28	195	199
TOTAL	1184	121	600	595

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)	COST (MILLION \$)
	LAB ADMIN OTHER	TOTAL REAL PROP EQUIP
7397	402,069 80,914 15,540	458,523 13,633 38,669

...MISSION

RESPONSIBLE FOR EXPLORATORY-, ADVANCED-, AND ENGRG DEV PROGS IN NUC WPN EFFECTS, COMPONENTS, ADVANCED WPN TECHNOLOGY, LASER SYS, RADN HAZARDS, NUC SURVIVABILITY/VULNERABILITY, DEV SYS NUC HARDNESS CRITERIA, ASSESSES SYS, NUC SAFETY. CONDUCTS CIV ENGRG EXPLORATORY- AND ADVANCED DEV PGMS.

...CURRENT IMPORTANT PROGRAMS

ADVANCED RADIATION TECHNOLOGY

AEROSPACE FACILITIES TECHNOLOGY

NUCLEAR SURVIVABILITY/VULNERABILITY ANALYSIS AND TESTING

NUCLEAR SAFETY ANALYSIS AND DESIGN CRITERIA

NUCLEAR WEAPONS EFFECTS ANALYSIS AND TESTING

...FUNCTIONS/EQUIPMENT/CAPABILITIES

NUCLEAR WEAPONS EFFECTS SIMULATION, SAFETY, COMPONENT ASSESSMENT AND ANALYSIS OF WEAPONS SYSTEMS NUCLEAR HARDNESS ARE CONDUCTED IN NUCLEAR ENGINEERING TEST LABORATORIES AND PHYSICS LABORATORIES. SIMULATION TESTS ON MISSILES, AIRCRAFT, AND COMPONENTS USE ELECTROMAGNETIC PULSE SIMULATORS, GAS GUNS, PULSE POWER, AND X-RAY DEVICES. LASER SYSTEMS DEVELOPMENT USES LASER/OPTICS LABORATORIES AND TEST RANGES WITH LARGE, HIGH POWER DEVICES. CIVIL ENGINEERING PROGRAMS USE SOILS-, ENVIRONMENTAL-, AND CHEMICAL LABORATORIES AND SHOCK TUNES OR HIGH EXPLOSIVES FOR SIMULATION. A TECHNICAL LIBRARY, METALLURGY- AND METROLOGY LABORATORIES, A DUAL CIC-660C COMPUTER WITH REMOTE ACCESS TERMINALS AND MULTI-CHANNEL SENSING/RECORDING AND DATA REDUCTION SUPPORT ALL REQUIRING R&D/DEVELOPMENT.

INSTALLATION: 3470 AEROSPACE MEDICAL RESEARCH LABORATORY - WPAFR, OH

0F0213

C.G. CIL. F.F. BOPPEL

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ESTIM)	1974 (ACT + EST)
TOTAL RDT&E	13.110	11.387
TOTAL PROCUREMENT	0.000	0.000
TOTAL C&M	0.000	0.000
TOTAL DIMP.	1.733	1.909
TOTAL ANIMAL LAB	14.851	13.296
TOTAL INHABIT.	7.502	7.162
TOTAL INHABIT. RDT&E	5.769	5.253
ANNUAL IMPLANTING COST	1.050	1.100

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PNOS	TOTAL PROF	MIN- PROF
MILITARY	134	20	79	59
CIVILIAN	170	25	97	73
TOTAL	304	93	172	132

ACRES	SPACE AND PROPERTY			COST (MILLION \$)		
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
30	311.900	10.000	15.200	237.100	11.570	15.899

...MISSION

...MISSION
COMMITT RD TO DEFINE MANS PERFORMANCE, PHYSIOLOGICAL TOLERANCE, PERSONAL PROT. NEEDS, AND DEVELOP PROTECTIVE TECHNIQUES AND EQUIP. TO SUSTAIN AND ENHANCE HIS PERF. IN AF OPERATIONAL ENVIRONMENTS. TO EST. DESIGN CRITERIA AND PROVIDE SUPPORT TO SYSTEM DEVELOPMENT IN ABOVE AREAS.

...CURRENT IMPORTANT PROGRAMS
DEFINE TOXIC HAZARDS ENV IR. POLLUTION EFF. OF MISSILE OPS. PROPELLANT TEST
DEVELOP A HUMAN PERF. METHOD TO COUNTER OPTICALLY AIMED WEAPONS.
INV. HELMET MOUNTED SIGHT SYS. FOR FLT. CONTROL AND WEAPON DELIVERY APPLNS
INV. HIGH G PILOT SEAT, CONTROLS + DISPLAYS DESIGN FOR OPS ABOVE 9 G'S
DETERMINE MANS EXPL. LIMITS, CAPABILITY, PROT. REQ. DURING ESCAPE FROM ADV. A/C

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MAJOR FUNCTIONS 1. IDENTIFY, QUANTITATE AND DETERMINE TOXIC HAZARDS AND ENVIRONMENTAL POLLUTION EFFECTS CREATED BY AF OPS. 2. DEVELOP NEW CONCEPTS AND DESIGN CRITERIA TO DEFINE MAN-MACHINE SYSTEM EFFECTIVENESS IN AF OPS
3. PROVIDE HUMAN ENGINEERING DATA, PRINCIPLES AND TECHNIQUES APPLICABLE TO DESIGN, TEST, OPS, MAINTENANCE OF AF SYSTEMS AND EQUIP. 4. STUDY EFFECTS, DETERMINE MANS TOLERANCE AND PERFORMANCE DURING BIODYNAMIC AND COMBINED STRESS OF AF OPERATIONS.
MAJOR EQUIP. FACILITIES HUMAN ENGINEERING RESEARCH LAB, TOXIC HAZARDS RESEARCH LAB, RESEARCH ANIMAL FACILITY, BIODYNAMIC NOISE, VIBRA. ION, IMPACT, ACCELERATION AND COMBINED STRESS LAB, MAN RATED ALTITUDE AND V. ENVIRONMENT CHAMBER SIMULATION FACILITIES.

INSTALLATION ARMED FORCES RADIobiology Res. INSTITUTE BETHESDA, MD

HD3622

C.O. CAPT MYRON J. VARON, USN MC

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

PROGRAM	1973 (ACTUAL)	1974 (ACT + EST)
TOTAL ROTC	3.734	2.593
TOTAL PROCUREMENT	0.000	0.000
TOTAL OCM	0.000	0.000
TOTAL OTHER	1.544	1.421
TOTAL ANNUAL LAB	5.278	5.614
TOTAL INHOUSE	4.728	4.794
TOTAL INHOUSE ROTC	3.544	3.373
ANNUAL OPERATING COST	0.880	0.911

PERSONNEL DATA (END OF FY 1973)

PERSONNEL	AUTHORIZED STRENGTH	TOTAL PHOS	TOTAL PROF	NON- PROF
MILITARY	97	22	53	44
CIVILIAN	139	17	53	86
TOTAL	236	39	106	130

SPACE AND PROPERTY

ACRES	SPACE (THOUSANDS OF SQUARE FEET)			COST (MILLION \$)		
	LAB	ADMIN	OTHR	TOTAL	REAL PROP	EQUIP
10	24,660	14,906	32,913	72,479	7,899	3,172

...MISSION

THE MISSION OF AFRI SHALL BE TO CONDUCT SCIENTIFIC RESEARCH IN THE FIELD OF RADIobiology AND RELATED MATTERS THAT ARE ESSENTIAL TO THE MEDICAL SUPPORT OF THE DEPARTMENT OF DEFENSE

...CURRENT IMPORTANT PROGRAMS

BIOCHEMICAL DIAGNOSIS OF MALIGNANT AND METASTATIC TUMORS
ACUTE EFFECTS OF HIGH-IONIZING ELECTROMAGNETIC RADIATION
EFFECTS OF HEAD INJURY ON BLOOD FLOW AND BRAIN FUNCTION
NEUROLOGIC EFFECTS OF IONIZING RADIATION AND DRUGS
STIMULATION OF MARROW RECOVERY POSTIRRADIATION

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES: OPERATE FACILITIES FOR CONDUCTING RADIobiology RESEARCH AND DISSEMINATING RESULTS; CONDUCTING ADVANCED TRAINING; OPERATE FACILITIES FOR PRODUCTION OF SHORT-LIVED RADIODISOTOPES AND PERFORM OTHER SUCH RESEARCH FUNCTIONS AS REQUIRED. MAJOR EQUIPMENT INCLUDES: PULSE AND STEADY STATE NUCL REACTOR, 300,000-CURIE COBALT-60 IRRADIATOR, POSITIVE ION ACCELERATOR, ELECTRON MICROWAVE LINEAR ACCELERATOR, X-RAY MACHINES WITH ASSOCIATED EXPOSURE ROOM COMPLEXES AND ELECTROMAGNETIC PULSE GENERATION SUPPORT SERVICES INCLUDE: MEASUREMENT OF RADIATION FIELDS, PROVISION AND CARE OF LABORATORY ANIMALS, EQUIPMENT DESIGN AND FABRICATION ASSISTANCE, REAL-TIME DATA ACQUISITION SYSTEM, TV AND FILM DOCUMENTATION OF EXPERIMENTS, PERSONNEL AND ENVIRONMENTAL MONITORING, EDITORIAL ASSISTANCE IN REPORT PREPARATION, AND A LARGE TECHNICAL LIBRARY

APPENDIX 1

Changes in Organization or Name *

Department of the Army

<u>Previous</u>	<u>As of 1 July 1973</u>
Coating & Chemical Laboratory Aberdeen Proving Ground, MD.	Disestablished.
Medical Biomechanical Research Laboratory Washington, DC	Medical Bioengineering R&D Laboratory Washington, DC
Medical Equipment R&D Laboratory Ft. Totten, NY	Medical Bioengineering R&D Laboratory Washington, DC

Department of the Navy

Naval Medical Research Unit No. 1 Berkeley, CA.	Disestablished.
Naval Personnel Research and Development Laboratory Washington, DC	Disestablished.
Naval Personnel Research Activity San Diego, CA	Naval Personnel Research and Development Center San Diego, CA
Naval Ship Research and Development Laboratory Panama City, FL	Naval Coastal Systems Laboratory Panama City, FL

Department of the Air Force

Eastern Test Range Patrick AFB, FL	Disestablished. <i>"Deleted from report since less than 2.5% of funds ever supplied by RDT+E"</i>
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*Changes since publication of Department of Defense In-House RDT&E Activities, 30 October 1972.

APPENDIX II

Definitions

1. *In-House RDT&E Activities*--Those organizational entities engaged in performing work in any or all of the categories of research, development, test and evaluation. The RDT&E effort, however, should represent a minimum of 25 percent of the total effort of each entity reporting in order to be considered as an RDT&E activity.

2. *Professionals*--Full-time government scientific and engineering personnel actively engaged in RDT&E activities. In the case of civilians, this will include all those holding positions that fall into the following categories under the Civil Service Occupational Groups and Series of Classes, General Schedule:

150	440	665	871	1330
180	454	668	880	1340
190	457	680	881	1350
193	460	690	890	1360
401	470	701	892	1370
403	471	801	893	1372
405	482	806	894	1362
410	486	808	896	1384
413	487	810	1301	1386
414	601	819	1306	1510
430	602	830	1310	1515
434	635	840	1313	1520
435	644	850	1315	1529
436	660	855	1320	1530
437	662	861	1321	1540

Military professionals, both officer and enlisted, actively engaged in RDT&E activities should be identified with the functions described in the above-referenced civilian job series. Generally, these jobs are referenced in Department of Defense Occupational Conversion Tables DoD 1312.1-0, DoD 1312.1-E under DoD groups 5 and 6 of DoD 1312.1-0, and various other groups of DoD 1312.1-E, published under the provisions of DoD Instruction 1312.1. Lawyers, accountants, chaplains, social workers and educators should be excluded.

3. *Technicians*--Generally nonprofessionals working on an RDT&E project or program in support of a professional. In the case of civilians, it will include, but will not necessarily be limited to, those holding positions that fall into the following categories of the Civil Service Occupational Groups and Series of Classes, General Schedule:

181	636	681	895
404	645	682	1311
421	646	683	1316
455	647	698	1341
458	649	699	1371
462	650	802	1374
621	661	817	1521
622	667	818	1531
625	669	856	1541

Discretion will have to be exercised by each RDT&E activity in determining the number of military technicians. Generally, they should follow the guidelines established in defining civilian technicians and can be identified in DoD 1312.1-E.

4. Real Property Cost--Each reporting activity will be responsible for determining and reporting the cost of real property. This cost should be established in accordance with the guidelines and definitions in DoD Instruction 4165.14. This should also include the cost of installed equipment.

5. Equipment Cost--Each reporting activity will be responsible for determining and reporting the cost of personal property. This cost will include those costs incurred by the acquisition (including installation, when applicable) of all property other than real property. It will include personal property such as machine tools, environmental test equipment, furniture, laboratory equipment, vehicles, etc. Items having a unit cost of less than \$200 may be excluded.

6. Space--The data to be furnished should include only walled and roofed building space. It should not include such things as parking lots, open storage areas, lean-tos, etc. The source of data may be the annual report submitted in compliance with the requirements of DoD Instruction 4165.14.

7. In-House Obligations--Obligation reported under this category are for activities performed, or to be performed, by the organizational entity. Their work is carried on directly by their own personnel. Particular care should be taken to include under in-house performance the cost of supplies and equipment essentially of an off-the-shelf nature that are procured for use in in-house research and development, plus such things as travel, publications, and other types of services in support of in-house functions and M.P.A. Excluded from the in-house total are expenses for planning and administering programs by DoD personnel of contracts and grants for out-of-house work and M.C.A.

8. Out-of-House Obligations--Obligations reported under this category are for activities performed, or to be performed, by other than the organizational entity. Out-of-house performers may include other departmental or DoD organizational entities, industrial firms, educational institutions, not-for-profit institutions, and private individuals. Included as out-of-house work are all expenses paid the out-of-house performers, as well as the expenses incurred in planning and administering these programs by personnel of the organizational entity. This would also include travel and other supporting services.

9. Annual Operating Cost--This should generally reflect the overhead cost of operating the laboratory or facility. It should include such things as costs of utilities, rents, janitorial services, guard and fire protection, support services such as supply personnel, printing, maintenance of buildings and grounds, etc. It should not include the salaries of direct labor personnel such as scientists, engineers, technicians, draftsmen, machinists, etc.

APPENDIX III

Selected Standard Abbreviations and Acronyms

AAM -- air-to-air missile	GCA -- ground-controlled approach
AAW -- antiair warfare	HF -- high-frequency
ADPE -- automatic data-processing equipment	IFF -- identification, friend or foe
AEC -- Atomic Energy Commission	IR -- infrared
AEDC -- Arnold Engineering Development Center	MPT -- military potential test
AFMDC -- Air Force Missile Development Center	NAF -- Naval Air Facility
AFSC -- Air Force Systems Command	NASA -- National Aeronautics and Space Administration
AFWET -- Air Force weapons effectiveness testing	NASC -- Naval Air Systems Command
AMC -- Army Material Command	NAVORD -- Naval Ordnance Systems Command
APG -- Aberdeen Proving Ground	NAVSHIP -- Naval Ship Systems Command
ARPA -- Advanced Research Projects Agency	NEHP -- nuclear electromagnetic propagation
ASW -- antisubmarine warfare	PI -- product improvement
AUS -- Army, United States	POL -- petroleum, oil, lubricants
BIS -- Board of Inspection and Survey	QA -- quality assurance
BW -- biological warfare	QMDO -- qualitative material development objective
CBR -- chemical, biological, radiological	QMR -- qualitative material requirement
CE -- Chief of Engineers, Army	RDT&E -- research, development, test and evaluation
CG -- commanding general	RF -- radio frequency
CNO -- Chief of Naval Operations	RV -- reentry vehicle
COMTEL -- communications electronics	SATS -- short airfield tactical support
DA -- Department of the Army	SDR -- small development requirement
DASA -- Defense Atomic Support Agency	SI -- ship installation
DOD -- Department of Defense	SP -- self-propelled
DZ -- drop zone	ST -- service test
ECM -- electronic countermeasures	T&E -- test and evaluation
ECOM -- Electronics Command, Army	TOTO -- Tongue-of-the-Ocean
ED -- engineering development	UDT -- underwater demolition team
EDT -- engineering development and test	ULMS -- Undersea Long-Range Missile System
EEG -- electroencephalogram	USATECOM -- U. S. Army Test and Evaluation Command
EKG -- electrocardiogram	UTTAS -- utility tactical transport aircraft system
ELINT -- electronic intelligence	USW -- undersea warfare
EMP -- electromagnetic propagation	UV -- ultraviolet
EMW -- electromagnetic warfare	V/STOL -- vertical/short takeoff and landing
EODC -- Explosive Ordnance Disposal Center	
ET -- engineering test	
EW -- electronic warfare	
FA -- field artillery	
FBM -- fleet ballistic missile	